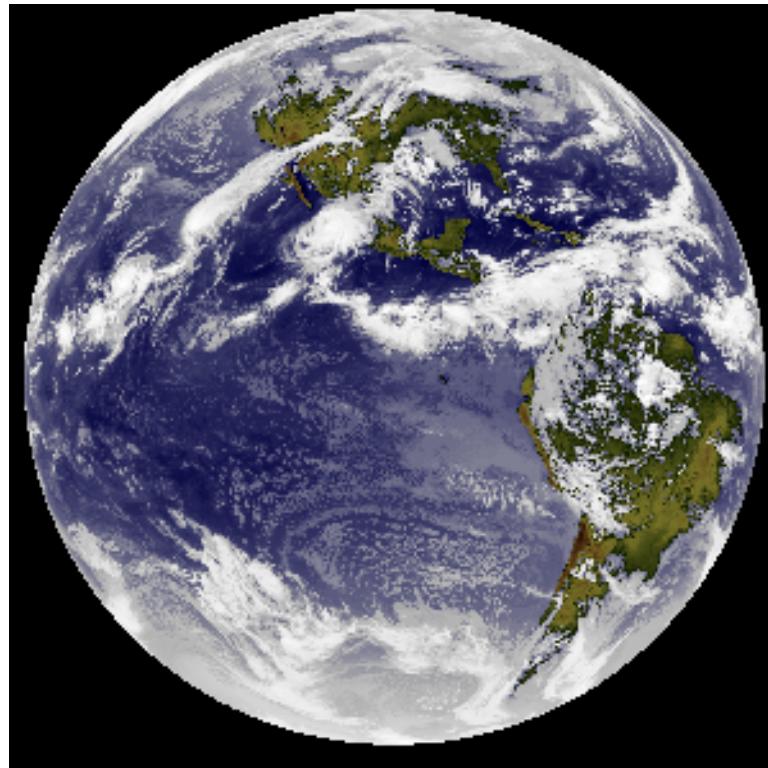


INTERNATIONAL PETROLEUM MONTHLY

December 1999



**Energy Information Administration
Energy Markets and Contingency Information Division**

Preface

The International Petroleum Monthly is a monthly publication that provides current international oil data. This report is published for the use of Members of Congress, Federal agencies, State agencies, industry, and the general public. Publication of this report is in keeping with responsibilities given the Energy Information Administration in Public Law 95-91 (Section 205(a)(2)) that states:

"The Administrator shall be responsible for carrying out a central, comprehensive, and unified energy data and information program which will collect, evaluate, assemble, analyze and disseminate data and information ..."

The International Petroleum Monthly presents data on international oil production, demand, imports, and stocks. The report has four sections. Section 1 contains time series data on world oil production, and on oil demand and stocks in the Organization for Economic Cooperation and Development (OECD). This section contains annual data beginning in 1990, and monthly data for the most recent two years. Section 2 presents an oil supply/demand balance for the world. This balance is presented in quarterly intervals for the most recent two years and annually for the three years prior to that. Section 3 presents data on oil imports by OECD countries. This section contains annual data for the most recent year, quarterly data for the most recent two quarters, and monthly data for the most recent twelve months. Section 4 presents annual time series data on world oil production and oil stocks, demand, and trade in OECD countries. World oil production and OECD demand data are for the years 1970 through 1998; OECD stocks from 1973 through 1998; and OECD trade from 1988 through 1998.

Data for the United States are developed by the Energy Information Administration's (EIA) Office of Oil and Gas. Data for other countries are derived largely from published sources, including International Energy Agency publications, the EIA International Energy Annual, and the trade press. (See sources after each section.) All data are reviewed by the International Energy Statistics Team of EIA. All data have been converted to units of measurement familiar to the American public. Definitions of oil production and consumption are consistent with other EIA publications.

General information about this publication may be obtained from W. Calvin Kilgore, Director, Office of Energy Markets and End Use, (202) 586-1617, and from Louis D. DeMouy, Director, Integrated Energy Statistics Division, (202) 586-8994. Detailed questions and comments concerning the contents of the International Petroleum Monthly may be directed to Michael J. Grillot, Team Leader, International Energy Statistics Team, (202) 586-6577, Patricia A. Smith (202) 586-6925, or H. Vicky McLaine (202) 586-9412; Oil Market Chronology - Douglas MacIntyre (202) 586-1831.

Oil Market Chronology - November 1999

The following chronology lists international events that hold significance for world petroleum markets. Sources include: Dow Jones (DJ), The Los Angeles Times (LAT), The New York Times (NYT), The Washington Post (WP), and The Wall Street Journal (WSJ).

- November 1** The Russian government sells a 9 percent stake in Russia's largest oil company, Lukoil, to a Cyprus-based firm, Reforma Investment. The Russian government had previously held a 27 percent stake in Lukoil. (WSJ)
- Atlantic Richfield and Triton Energy conclude a \$5 billion agreement with the state-run oil companies of Thailand and Malaysia to sell natural gas from blocks jointly held by the two firms in the Gulf of Thailand. Deliveries of 390 million cubic feet per day are set to begin in 2002. (WSJ)
- November 4** China and Germany sign a memorandum of understanding for the construction of a \$2.7 billion petrochemical complex in China. The project will be a joint venture between China's state-owned petroleum firm Sinopec and BASF of Germany. The deal was signed during a visit to China by German Prime Minister Gerhard Schroeder. (DJ)
- November 6** China National Petroleum Corporation (CNPC) announces that it will be undertaking a reorganization of its corporate structure. The company's exploration, production, gas, refining, and petrochemical units will be transferred to a holding company. Its technical services and overseas operations units will remain outside the holding company. CNPC officials intend to offer shares in the holding company on the New York Stock Exchange in January or February 2000. (DJ)
- November 10** Alberto Calderon is appointed to head the Colombian state petroleum company, Ecopetrol, after the resignation of its previous president Carlos Rodado. (DJ)
- November 14** Royal Dutch Shell signs an \$800 million development contract with the National Iranian Oil Company (NIOC) for two offshore fields in the Iranian sector of the Persian Gulf. The contract calls for an expansion in production at the Soroush field to 150,000 barrels per day and at the Nowruz field to 90,000 barrels per day. Under the "buy back" contract, Royal Dutch Shell will not have an ownership interest in the fields, but will recoup its investment plus a fixed rate of return. The move raises the possibility of United States sanctions under the Iran-Libya Sanctions Act (ILSA), which prohibits investment of more than \$40 million per year by foreign companies in Iran's oil industry. (DJ)
- November 15** The United States and China conclude an agreement on Chinese entry into the World Trade Organization (WTO). Under the agreement, China will make a limited opening of its internal petroleum products market to foreign competition, allowing foreign firms to open 30 retail gas stations every three years after China's accession to the WTO. China also will abolish the existing oil import quota system in phases over four years. (DJ)
- November 17** California governor Gray Davis announces a lawsuit by the State of California against the federal government in an attempt to block extensions of offshore oil leases which eventually could expand oil production off the central California coast. California is demanding the right to scrutinize each of the 36 blocks prior to any federal government action. The move comes four days after the Department of the Interior unveiled a plan which allows oil companies to move forward with exploration in the areas. (LAT)
- November 18** The heads of state of Turkey, Azerbaijan, and Georgia sign an agreement to build a pipeline for the export of crude oil from the Caspian Basin. The 1,080-mile pipeline will begin at the Azerbaijani capital, Baku, and run through Georgia and Turkey to the Turkish port of Ceyhan. The project is expected to cost \$2.4 billion, and the government of Turkey has offered guarantees that the cost of the Turkish segment of the pipeline will not exceed \$1.4 billion. The signing ceremony took place during a visit to Istanbul by U.S. President Clinton for a summit of the Organization for Cooperation and Security in Europe (OSCE). (WP, NYT)

- November 20** Iraq announces its rejection of the United Nations Security Council's two-week extension of the "oil-for-food" program, under which Iraq is permitted to make limited oil exports. The rejection produces a cutoff in Iraqi oil exports, which Iraq said was ordered to protest the failure of the Security Council to grant a six-month extension. Many analysts see the Iraqi move as coming at a particularly inopportune time for oil consumers, as world oil stocks have been falling in recent months. (DJ, NYT, WSJ)
- November 25** The National Iranian Oil Company (NIOC) defers loadings of approximately 18 million barrels of crude oil exports scheduled for late November and early December, resulting in delays of as much as 11 days for some buyers. The deferment comes in response to an order from Iranian Oil Minister Bijan Zanganeh for strict control of exports to ensure compliance with Iran's OPEC production quota. (DJ)
- November 27** Iraqi Oil Minister Amer Mohammed Rashid states that Iraq is willing to accept a six-month extension of the United Nations "oil-for-food" program. He also urges other OPEC members not to raise output in response to Iraq's temporary halt in crude oil exports. (DJ)
- November 30** A spokesman for the Chinese Foreign Ministry states that if the dispute among several Asian countries over the potentially hydrocarbon-rich Spratly Islands cannot be resolved, China would consider the idea of joint development of the Islands with other claimants. However, the spokesman also reiterated China's claim to the islands. (DJ)
- The Federal Trade Commission (FTC) grants approval for the proposed merger between oil giants Exxon and Mobil. The \$80 billion merger was approved by the FTC after the firms agreed to the largest divestiture of assets ever involved in a merger. The companies will sell over 2,400 retail outlets, mostly in the Northeast, Texas, and California, and a refinery in California. (DJ)

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1. Annual and Monthly Oil Data

Figure 1. World Crude Oil Production, Monthly

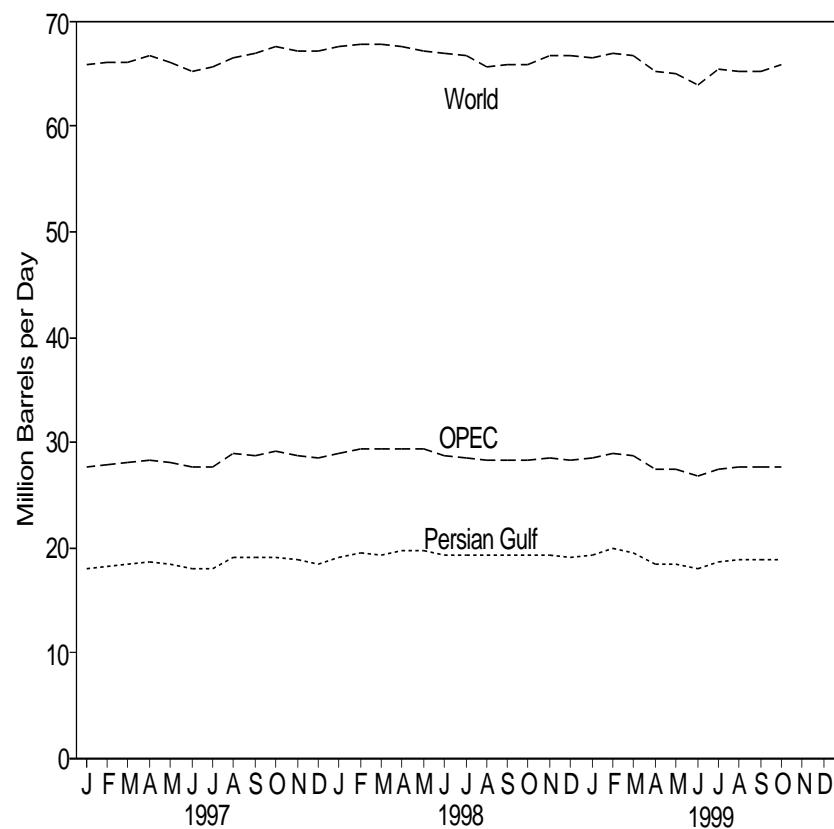
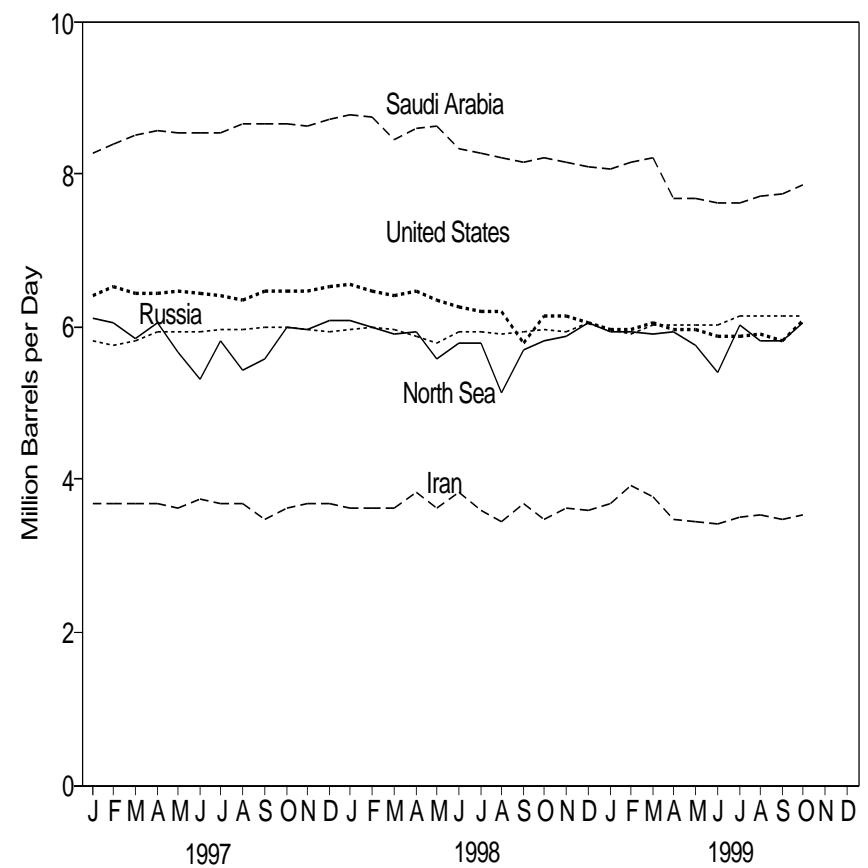


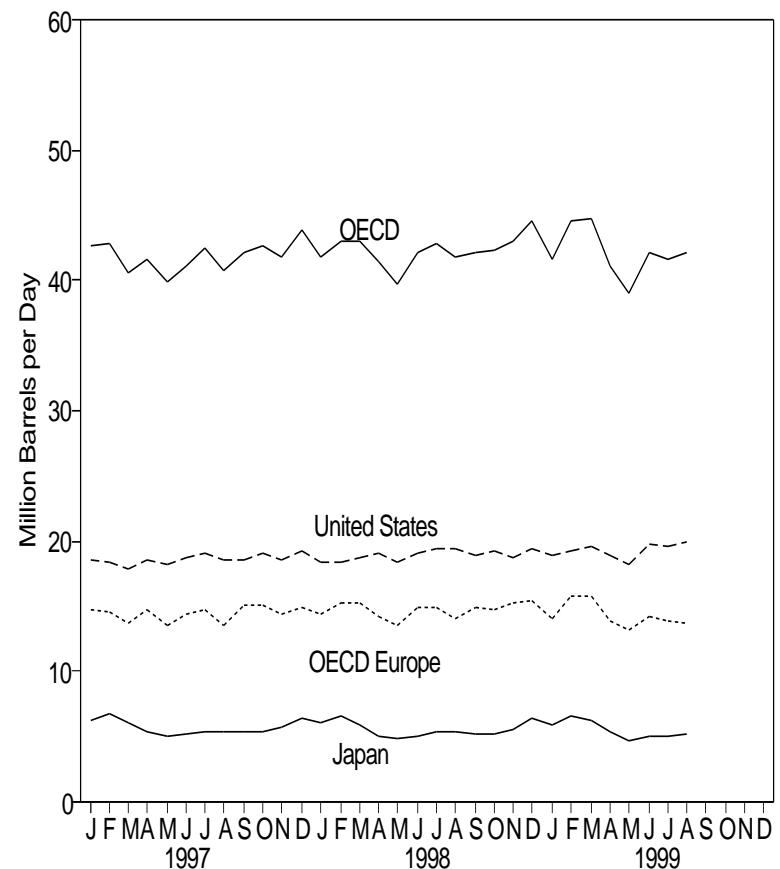
Figure 2. Leading Crude Oil Producers, Monthly



Source: Tables 1.1a-1.1c

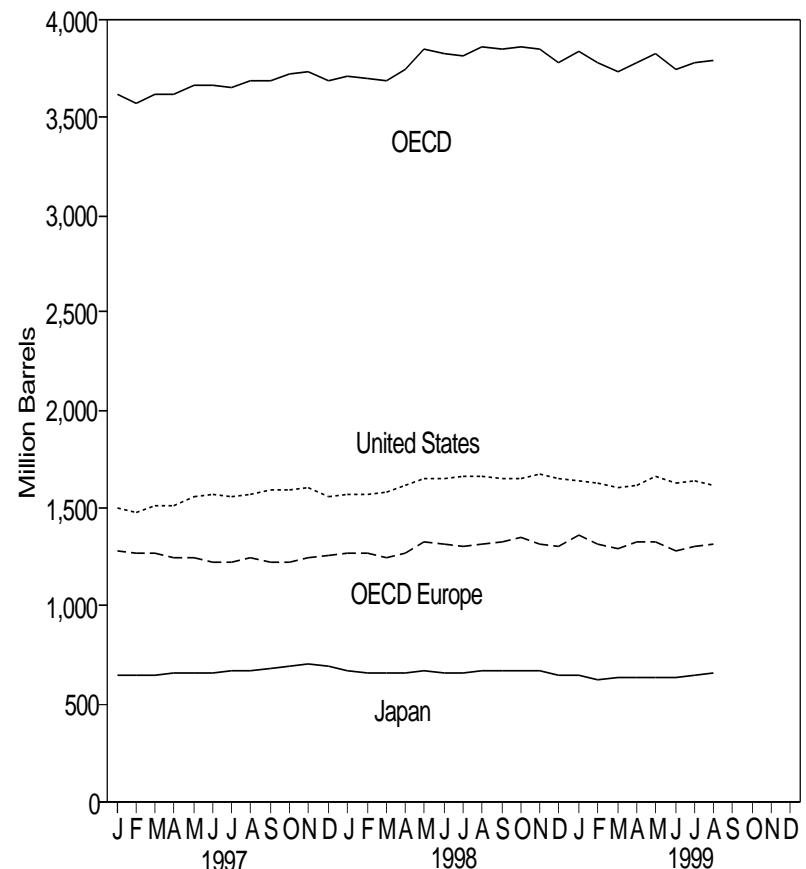
Source: Tables 1.1a-1.1c

Figure 3. OECD Oil Consumption, Monthly



Source: Table 1.7

Figure 4. OECD Oil Stocks, Monthly



Source: Table 1.5

Table 1.1a World Crude Oil Production (Including Lease Condensate), 1990-Present
 (Thousand Barrels per Day)

	Algeria	Indo-nesia	Iran	Iraq	Kuwait ^{1/}	Libya	Nigeria	Qatar	Saudi Arabia ^{1/}	United Arab Emirates	Vene-zuela	Total OPEC
1990 Average.....	1,175	1,462	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	23,195
1991 Average.....	1,230	1,592	3,312	305	190	1,483	1,892	395	8,115	2,386	2,375	23,275
1992 Average.....	1,214	1,504	3,429	425	1,058	1,433	1,943	423	8,332	2,266	2,371	24,398
1993 Average.....	1,162	1,511	3,540	512	1,852	1,361	1,960	413	8,198	2,159	2,450	25,119
1994 Average.....	1,180	1,510	3,618	553	2,025	1,378	1,931	415	8,120	2,193	2,588	25,510
1995 Average.....	1,202	1,503	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	26,004
1996 Average.....	1,242	1,547	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,461
1997 Average.....	1,277	1,520	3,664	1,155	2,083	1,446	2,332	649	8,562	2,316	3,315	28,320
1998 January.....	1,290	1,520	3,635	1,261	2,215	1,450	2,218	715	8,765	2,435	3,440	28,944
February.....	1,290	1,520	3,635	1,703	2,210	1,450	2,263	735	8,760	2,435	3,410	29,411
March.....	1,290	1,520	3,635	1,825	2,210	1,450	2,380	735	8,460	2,480	3,410	29,395
April.....	1,270	1,520	3,835	1,985	2,115	1,400	2,238	705	8,585	2,420	3,240	29,313
May.....	1,250	1,520	3,635	2,245	2,105	1,360	2,230	705	8,625	2,330	3,240	29,245
June.....	1,240	1,490	3,835	1,920	2,105	1,360	2,210	705	8,325	2,300	3,210	28,700
July.....	1,230	1,490	3,585	2,355	2,075	1,360	2,160	685	8,275	2,280	3,070	28,565
August.....	1,220	1,510	3,435	2,555	2,025	1,340	2,010	675	8,225	2,300	2,990	28,285
September.....	1,220	1,510	3,685	2,555	1,972	1,335	2,010	665	8,173	2,300	2,940	28,365
October.....	1,220	1,540	3,485	2,555	1,970	1,335	1,960	670	8,220	2,290	2,990	28,235
November.....	1,220	1,540	3,635	2,505	2,020	1,350	2,060	675	8,170	2,290	3,040	28,505
December.....	1,220	1,540	3,585	2,305	2,010	1,350	2,110	680	8,110	2,290	3,040	28,240
1998 Average.....	1,246	1,518	3,634	2,150	2,085	1,378	2,153	696	8,389	2,345	3,167	28,762
1999 January.....	1,230	1,540	3,665	2,515	1,995	1,360	2,080	695	8,065	2,240	3,020	28,405
February.....	1,240	1,520	3,925	2,655	2,005	1,360	2,010	695	8,165	2,330	3,000	28,905
March.....	1,250	1,530	3,795	2,430	2,020	1,360	2,160	775	8,220	2,235	2,960	28,735
April.....	1,210	1,530	3,485	2,655	1,785	1,320	2,160	705	7,665	2,180	2,800	27,495
May.....	1,190	1,530	3,435	2,705	1,815	1,300	2,190	685	7,665	2,130	2,780	27,425
June.....	1,180	1,510	3,415	2,355	1,830	1,290	2,150	655	7,610	2,110	2,760	26,865
July.....	1,180	1,490	3,515	2,805	1,830	1,290	2,130	685	7,610	2,130	2,760	27,425
August.....	1,190	1,480	3,535	2,855	1,860	1,290	2,140	685	7,710	2,140	2,760	27,645
September.....	1,190	1,480	3,485	2,855	R1,885	1,300	2,150	685	R7,735	2,145	2,760	R27,670
October.....	1,190	1,480	3,535	2,670	1,925	1,310	2,170	685	7,845	2,145	2,760	27,715
1999 Average.....	1,205	1,509	3,577	2,650	1,895	1,318	2,135	695	7,827	2,177	2,835	27,823

^{1/} Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1980 through July 1990 and beginning in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia. In October 1999, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 590 thousand barrels per day.

Notes: •OPEC=Organization of Petroleum Exporting Countries. •Monthly data are often preliminary and also may not average to the annual totals due to rounding.

Sources: See end of Section 1.

Table 1.1b World Crude Oil Production (Including Lease Condensate), 1990-Present
 (Thousand Barrels per Day)

	Norway	United Kingdom	North Seal/ ¹	Angola	Argen-tina	Austra- lia	Brazil	Canada	China	Colombia	Ecuador
1990 Average.....	1,704	1,820	3,667	475	483	575	631	1,553	2,774	440	285
1991 Average.....	1,890	1,797	3,811	500	485	545	630	1,548	2,835	419	299
1992 Average.....	2,229	1,825	4,182	526	553	535	626	1,605	2,845	433	321
1993 Average.....	2,350	1,915	4,403	509	594	503	643	1,679	2,890	456	344
1994 Average.....	2,521	2,375	5,058	536	650	536	671	1,746	2,939	450	365
1995 Average.....	2,768	2,489	5,400	646	715	562	695	1,805	2,990	585	392
1996 Average.....	3,104	2,568	5,822	709	756	570	795	1,837	3,131	623	396
1997 Average.....	3,143	2,518	5,830	714	834	588	841	1,922	3,200	652	388
1998 January.....	3,293	2,597	6,082	735	840	528	886	1,912	3,240	715	390
February.....	3,230	2,583	5,989	730	840	550	920	1,944	3,155	710	380
March.....	3,123	2,600	5,908	730	840	560	920	1,952	3,170	725	380
April.....	3,160	2,602	5,928	710	840	604	930	1,988	3,140	725	380
May.....	2,917	2,499	5,589	710	855	600	959	1,943	3,210	735	380
June.....	3,140	2,495	5,797	710	855	624	956	1,932	3,260	735	380
July.....	3,120	2,525	5,801	710	855	621	975	2,045	3,200	735	330
August.....	2,440	2,536	5,133	730	850	637	990	2,016	3,180	752	380
September.....	2,863	2,690	5,712	735	855	541	970	2,064	3,216	775	385
October.....	2,920	2,718	5,807	765	850	406	995	2,024	3,150	810	390
November.....	2,978	2,720	5,881	770	850	430	1,070	1,989	3,240	845	380
December.....	3,045	2,821	6,038	785	830	428	1,075	1,962	3,215	847	370
1998 Average.....	3,017	2,616	5,804	735	847	544	971	1,981	3,198	759	377
1999 January.....	3,002	2,721	5,922	780	815	509	1,128	1,892	3,230	843	370
February.....	3,004	2,728	5,937	780	820	555	1,090	1,878	3,235	830	380
March.....	2,975	2,708	5,900	790	810	463	1,110	1,835	3,215	830	350
April.....	2,953	2,746	5,921	770	815	474	1,080	1,832	3,190	840	350
May.....	2,948	2,597	5,765	755	805	506	1,070	1,882	3,190	815	370
June.....	2,727	2,429	5,396	755	805	500	1,100	1,936	3,190	815	367
July.....	3,094	2,672	6,011	745	805	496	1,082	1,959	3,261	815	365
August.....	2,868	2,699	5,819	750	805	555	1,080	1,906	3,170	R819	R380
September.....	R2,864	R2,670	R5,808	R760	R788	R578	1,090	R1,857	3,145	R821	R380
October.....	2,994	2,762	6,059	760	800	566	1,090	1,892	3,177	825	380
1999 Average.....	2,943	2,673	5,854	764	807	520	1,092	1,887	3,200	825	369

¹/ North Sea includes the United Kingdom Offshore, Norway, Denmark, Netherlands Offshore, and Germany Offshore.

R=Revised data.

Notes: *Monthly data are often preliminary and also may not average to the annual totals due to rounding. See Section 4 for historical series.

Sources: See end of Section 1.

Table 1.1c World Crude Oil Production (Including Lease Condensate), 1990-Present
(Thousand Barrels per Day)

	Egypt	Gabon	India	Malaysia	Mexico	Oman	Russia	Former U.S.S.R.	Syria	United States	Other ^{1/}	World
1990 Average.....	873	270	660	619	2,553	685	--	10,975	388	7,355	2,253	60,566
1991 Average.....	874	294	615	646	2,680	700	--	9,992	492	7,417	2,274	60,207
1992 Average.....	881	298	561	653	2,669	740	7,632	--	481	7,171	3,229	60,213
1993 Average.....	890	313	534	640	2,673	776	6,730	--	554	6,847	3,279	60,236
1994 Average.....	896	329	590	645	2,685	810	6,135	--	560	6,662	3,380	60,991
1995 Average.....	920	365	703	682	2,618	851	5,995	--	575	6,560	3,414	62,335
1996 Average.....	922	368	651	695	2,855	883	5,850	--	582	6,465	3,490	63,711
1997 Average.....	856	370	675	746	3,023	904	5,920	--	561	6,452	3,793	66,420
1998 January....	860	360	680	740	3,085	920	5,979	--	550	6,541	3,765	67,560
February....	860	370	685	730	3,140	920	5,997	--	550	6,476	3,747	67,927
March.....	860	370	685	740	3,160	930	5,962	--	550	6,408	3,746	67,806
April.....	860	370	635	740	3,140	920	5,876	--	550	6,483	3,707	67,672
May.....	870	370	670	750	3,149	910	5,789	--	560	6,347	3,663	67,131
June.....	870	370	670	750	3,050	900	5,928	--	560	6,267	3,713	66,865
July.....	880	360	676	730	3,120	870	5,923	--	560	6,194	3,739	66,733
August.....	870	360	651	730	3,055	880	5,910	--	560	6,203	3,705	65,719
September...	870	350	625	720	2,906	890	5,936	--	550	5,789	3,723	65,819
October.....	870	350	638	720	2,792	890	5,979	--	550	6,143	3,745	65,940
November....	860	350	643	720	3,147	890	5,945	--	550	6,140	3,765	66,787
December....	860	350	679	720	3,107	880	6,040	--	550	6,043	3,765	66,613
1998 Average....	866	361	661	733	3,070	900	5,938	--	553	6,252	3,732	66,874
1999 January....	860	340	694	720	3,144	880	5,962	--	550	E5,954	3,792	66,591
February....	860	340	686	720	3,020	900	5,897	--	550	E5,984	3,783	66,946
March.....	870	340	645	720	3,053	910	6,024	--	540	E6,048	3,793	66,764
April.....	870	340	645	720	2,893	910	6,021	--	540	E5,977	3,783	65,244
May.....	860	340	632	720	2,926	900	6,036	--	540	E5,985	3,769	65,071
June.....	850	340	650	730	2,801	910	6,026	--	540	E5,880	3,812	64,028
July.....	840	340	680	690	2,920	910	6,148	--	540	E5,873	3,805	65,465
August.....	R840	340	652	730	2,848	R890	6,139	--	540	E5,912	R3,779	R65,346
September...	R840	R330	655	730	2,861	R900	R6,141	--	R530	RE5,820	R3,918	R65,348
October....	840	330	655	730	2,766	910	6,153	--	530	PE6,100	3,955	65,929
1999 Average....	853	338	659	721	2,923	902	6,056	--	540	PE5,954	3,819	65,669

^{1/} Other is a calculated total derived from the difference between "World" and the sum of production in "Total OPEC" (Table 1.1a) and all other countries listed (Tables 1.1b and 1.1c). The total "North Sea" is not subtracted from the world total, though Norway and the United Kingdom have been subtracted.

-- = Not applicable. R=Revised data. E=Estimated. PE=Preliminary estimate. RE=Revised estimate.

Notes: •Monthly data are often preliminary and also may not average to the annual totals due to rounding. See Section 4 for historical series.

Sources: See end of Section 1.

Table 1.2 OPEC Crude Oil Production (Excluding Condensate), 1990-Present
(Thousand Barrels per Day)

		Algeria	Indo-nesia	Iran	Iraq	Kuwait ^{1/}	Libya	Nigeria	Qatar	Saudi Arabia ^{1/}	United Arab Emirates	Vene-zuela	Total OPEC
1990	Average...	765	1,281	3,088	2,040	1,175	1,375	1,755	406	6,410	2,066	2,100	22,461
1991	Average...	800	1,410	3,312	305	190	1,483	1,832	395	8,115	2,326	2,338	22,506
1992	Average...	772	1,326	3,429	425	1,058	1,433	1,820	423	8,332	2,206	2,334	23,558
1993	Average...	747	1,327	3,540	512	1,852	1,361	1,835	413	8,198	2,109	2,410	24,304
1994	Average...	750	1,334	3,583	548	2,025	1,378	1,821	380	8,120	2,113	2,542	24,594
1995	Average...	767	1,343	3,608	555	2,057	1,390	1,878	407	8,231	2,148	2,710	25,094
1996	Average...	812	1,367	3,651	574	2,062	1,401	1,885	475	8,218	2,198	2,898	25,541
1997	Average...	847	1,355	3,629	1,150	2,083	1,446	2,217	614	8,562	2,236	3,275	27,414
1998	January...	860	1,340	3,600	1,256	2,215	1,450	2,108	680	8,765	2,355	3,400	28,029
	February..	860	1,340	3,600	1,698	2,210	1,450	2,153	700	8,760	2,355	3,370	28,496
	March.....	860	1,340	3,600	1,820	2,210	1,450	2,270	700	8,460	2,400	3,370	28,480
	April.....	840	1,340	3,800	1,980	2,115	1,400	2,128	670	8,585	2,340	3,200	28,398
	May.....	820	1,340	3,600	2,240	2,105	1,360	2,120	670	8,625	2,250	3,200	28,330
	June.....	810	1,310	3,800	1,915	2,105	1,360	2,100	670	8,325	2,220	3,170	27,785
	July.....	800	1,310	3,550	2,350	2,075	1,360	2,050	650	8,275	2,220	3,030	27,650
	August....	790	1,330	3,400	2,550	2,025	1,340	1,900	640	8,225	2,220	2,950	27,370
	September.	790	1,330	3,650	2,550	1,972	1,335	1,900	630	8,173	2,220	2,900	27,450
	October...	790	1,360	3,450	2,550	1,970	1,335	1,850	635	8,220	2,210	2,950	27,320
	November..	790	1,360	3,600	2,500	2,020	1,350	1,950	640	8,170	2,210	3,000	27,590
	December..	790	1,360	3,550	2,300	2,020	1,350	2,000	645	8,110	2,210	3,000	27,325
1998	Average...	816	1,338	3,599	2,145	2,085	1,378	2,043	661	8,389	2,265	3,127	27,847
1999	January...	800	1,360	3,630	2,510	1,995	1,360	1,970	660	8,065	2,160	2,980	27,490
	February..	810	1,340	3,890	2,650	2,005	1,360	1,900	660	8,165	2,250	2,960	27,990
	March.....	820	1,350	3,760	2,425	2,020	1,360	2,050	740	8,220	2,155	2,920	27,820
	April.....	780	1,350	3,450	2,650	1,785	1,320	2,050	670	7,665	2,100	2,760	26,580
	May.....	760	1,350	3,400	2,700	1,815	1,300	2,080	650	7,665	2,050	2,740	26,510
	June.....	750	1,330	3,380	2,350	1,830	1,290	2,040	620	7,610	2,030	2,720	25,950
	July.....	750	1,310	3,480	2,800	1,830	1,290	2,020	650	7,610	2,050	2,720	26,510
	August....	760	1,300	3,500	2,850	1,860	1,290	2,030	650	7,710	2,060	2,720	26,730
	September..	760	1,300	3,450	2,850	R1,885	1,300	2,040	650	R7,735	2,065	2,720	R26,755
	October..	760	1,300	3,500	2,665	1,925	1,310	2,060	650	7,845	2,065	2,720	26,800
1999	Average...	775	1,329	3,542	2,645	1,895	1,318	2,025	660	7,827	2,097	2,795	26,908

1/ Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1980 through July 1990 and beginning in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia. In October 1999, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 590 thousand barrels per day.

R=Revised data.

Notes: •OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

•Monthly data are often preliminary and also may not average to the annual totals due to rounding.

Sources: See end of Section 1.

Table 1.3 World Natural Gas Plant Liquids Production, 1990-Present
(Thousand Barrels per Day)

	Algeria	Canada	Mexico	Saudi Arabia	Russia	Former USSR	United States ^{1/}	Persian Gulf ^{2/}	OAPEC ^{3/}	OPEC ^{3/}	World
1990 Average.....	130	426	428	620	--	425	1,559	930	1,107	1,281	4,632
1991 Average.....	140	431	457	680	--	420	1,659	931	1,113	1,299	4,827
1992 Average.....	140	460	454	713	230	--	1,697	1,003	1,185	1,364	4,974
1993 Average.....	145	506	459	704	220	--	1,736	1,040	1,238	1,435	5,180
1994 Average.....	140	529	461	698	200	--	1,727	1,071	1,267	1,465	5,292
1995 Average.....	145	581	447	701	180	--	1,762	1,106	1,301	1,506	5,485
1996 Average.....	150	596	423	697	185	--	1,830	1,082	1,295	1,501	5,580
1997 Average.....	160	636	388	712	195	--	1,817	1,158	1,390	1,614	5,750
1998 January.....	155	665	385	735	230	--	1,805	1,185	1,419	1,632	5,882
February.....	155	680	420	735	230	--	1,857	1,185	1,419	1,632	5,986
March.....	155	645	425	735	230	--	1,853	1,185	1,419	1,632	5,953
April.....	155	645	425	725	230	--	1,869	1,175	1,409	1,622	5,960
May.....	155	580	430	725	230	--	1,835	1,175	1,409	1,622	5,828
June.....	155	610	420	705	230	--	1,748	1,155	1,389	1,602	5,731
July.....	155	648	386	700	230	--	1,586	1,150	1,384	1,597	5,488
August.....	155	662	464	695	230	--	1,722	1,145	1,379	1,592	5,697
September....	155	625	435	695	230	--	1,716	1,145	1,379	1,592	5,687
October.....	155	667	415	695	230	--	1,744	1,145	1,379	1,592	5,747
November....	155	681	438	695	230	--	1,768	1,145	1,379	1,592	5,785
December....	155	705	447	690	230	--	1,620	1,140	1,374	1,587	5,669
1998 Average.....	155	651	424	711	230	--	1,759	1,161	1,395	1,608	5,783
1999 January.....	155	669	453	685	206	--	1,656	1,135	1,369	1,582	5,628
February....	155	650	466	685	206	--	1,722	1,135	1,369	1,582	5,742
March.....	155	632	469	695	206	--	1,779	1,145	1,379	1,592	5,766
April.....	155	625	457	655	206	--	1,786	1,105	1,339	1,552	5,717
May.....	155	658	451	655	206	--	1,768	1,105	1,339	1,552	5,663
June.....	155	612	440	650	206	--	1,827	1,100	1,334	1,547	5,633
July.....	155	655	441	650	206	--	1,880	1,100	1,334	1,547	5,821
August.....	155	667	418	660	206	--	1,838	1,110	1,344	1,557	5,701
September....	155	R628	414	660	206	--	RE1,911	1,110	1,344	1,557	R5,776
October....	155	658	414	665	206	--	E1,876	1,115	1,349	1,562	5,779
1999 Average.....	155	646	442	666	206	--	E1,805	1,116	1,350	1,563	5,723

^{1/} U.S. geographic coverage is the 50 States and the District of Columbia. Excludes fuel ethanol blended into finished motor gasoline.

^{2/} See Appendix A for countries in this group.

^{3/} OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries.

See Appendix A for countries in these groups.

-- = Not applicable. R=Revised data. E=Estimated.

Notes: •Monthly data are often preliminary and also may not average to the annual totals due to rounding. See Section 4 for historical series.

Sources: See end of Section 1.

Table 1.4 World Oil Supply, 1990-Present
 (Thousand Barrels per Day)

	United States ^{1/}	Persian Gulf ^{2/}	OAPEC ^{3/}	OPEC ^{3/}	World
1990 Average.....	9,677	16,249	17,232	24,536	66,754
1991 Average.....	9,883	15,704	16,747	24,625	66,632
1992 Average.....	9,768	17,010	17,871	25,818	66,961
1993 Average.....	9,602	17,792	18,505	26,610	67,348
1994 Average.....	9,413	18,072	18,745	27,031	68,228
1995 Average.....	9,400	18,351	19,069	27,566	69,837
1996 Average.....	9,445	18,486	19,237	28,018	71,394
1997 Average.....	9,461	19,665	20,453	29,990	74,343
1998 January.....	9,631	20,283	21,097	30,632	75,743
February.....	9,551	20,735	21,552	31,099	76,146
March.....	9,445	20,602	21,421	31,083	75,959
April.....	9,555	20,892	21,441	30,991	75,852
May.....	9,425	20,892	21,601	30,923	75,218
June.....	9,334	20,417	20,916	30,358	74,930
July.....	9,020	20,477	21,226	30,218	74,477
August.....	9,236	20,432	21,286	29,933	73,743
September.....	8,757	20,567	21,164	30,013	73,773
October.....	9,130	20,407	21,205	29,883	73,946
November.....	9,267	20,512	21,165	30,153	74,946
December.....	9,005	20,192	20,895	29,883	74,638
1998 Average.....	9,278	20,532	21,246	30,426	74,939
1999 January.....	E8,916	20,382	21,024	30,043	74,541
February.....	E9,021	20,982	21,374	30,543	75,018
March.....	E9,020	20,692	21,221	30,383	74,739
April.....	E8,951	19,652	20,411	29,103	73,164
May.....	E9,013	19,612	20,371	29,033	73,010
June.....	E9,010	19,147	19,900	28,468	71,980
July.....	E8,915	19,747	20,390	29,028	73,464
August.....	E9,104	19,967	R20,598	29,258	R73,417
September.....	RE9,044	R19,972	R20,651	R29,283	R73,453
October.....	PE9,163	19,992	20,631	29,333	73,911
1999 Average.....	PE9,016	20,009	20,653	29,442	73,664

^{1/} U.S. geographic coverage is the 50 States and the District of Columbia. Beginning in 1993, includes fuel ethanol blended into finished motor gasoline and oxygenate production from merchant MTBE plants.

^{2/} See Appendix A for countries in this group.

^{3/} OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups.

R=Revised data. E=Estimated. PE=Preliminary estimate. RE=Revised estimate.

Notes: •Oil Supply includes crude oil, natural gas plant liquids, other liquids, and refinery gain. See Explanatory Note 1 in Appendix B. •Monthly data are often preliminary and also may not average to the annual total due to rounding.

See Section 4 for historical series.

Sources: See end of Section 1.

Table 1.5 Oil Stocks in OECD Countries, End of Period
(Million Barrels)

		France	Italy	Germany ^{1/}	United Kingdom	OECD Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}	Total OECD
1990	December.....	140	172	265	112	1,163	1,621	121	590	73	3,568
1991	December.....	153	160	288	119	1,181	1,617	119	606	65	3,588
1992	December.....	146	174	310	113	1,219	1,592	107	603	67	3,588
1993	December.....	158	163	309	118	1,221	1,647	105	618	69	3,661
1994	December.....	158	164	312	115	1,240	1,653	119	645	69	3,726
1995	December.....	159	162	301	107	1,228	1,563	109	630	71	3,601
1996	December.....	158	152	300	108	1,256	1,507	103	651	74	3,591
1997	December.....	164	147	298	105	1,256	1,560	115	685	74	3,689
1998	January.....	163	154	298	111	1,277	1,570	118	673	75	3,712
	February.....	161	155	290	108	1,272	1,569	117	664	72	3,694
	March.....	155	146	285	109	1,245	1,587	123	655	74	3,684
	April.....	163	161	292	106	1,274	1,614	120	658	76	3,742
	May.....	171	168	306	111	1,337	1,652	118	667	79	3,853
	June.....	164	164	308	109	1,312	1,651	116	658	82	3,819
	July.....	164	157	313	109	1,302	1,661	115	660	76	3,814
	August.....	168	161	319	106	1,322	1,669	118	672	77	3,859
	September....	170	158	317	107	1,325	1,652	120	676	79	3,853
	October.....	170	162	321	109	1,346	1,649	121	676	70	3,862
	November....	161	157	320	99	1,314	1,672	122	675	71	3,853
	December....	161	153	321	108	1,304	1,647	118	649	66	3,784
1999	January.....	181	154	329	111	R1,364	1,639	117	645	72	R3,837
	February....	175	146	320	109	R1,323	1,625	118	633	74	R3,773
	March.....	169	149	306	109	1,295	1,608	124	634	72	3,733
	April.....	174	148	316	110	R1,328	1,615	121	636	75	R3,776
	May.....	182	149	317	107	R1,337	1,661	120	637	R74	R3,829
	June.....	167	142	310	102	1,284	1,636	116	638	74	3,749
	July.....	174	141	313	103	R1,302	1,639	120	645	76	R3,782
	August.....	178	147	307	109	1,315	1,618	120	661	78	3,793

^{1/} Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

^{2/} "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

^{3/} U.S. geographic coverage is the 50 States and the District of Columbia.

^{4/} "Other" consists of Australia, New Zealand, and the U.S. Territories.

R=Revised data.

Notes: •Oil Stocks - See Explanatory Note 2 in Appendix B. •See Section 4 for historical series.

Sources: See end of Section 1.

Table 1.6 Commercial and Government-Owned Oil Stocks in OECD Countries (End of June 1999)
 (Million Barrels)

Country	Commercial	Government Owned	Total
Canada.....	116	0	116
United States ^{1/}	1,061	575	1,636
United States Territories.....	22	0	22
Japan.....	323	315	638
Australia/New Zealand.....	52	NA	52
Austria.....	24	0	24
Belgium/Luxembourg.....	34	0	34
Denmark.....	26	0	26
Finland.....	24	0	24
France.....	167	0	167
Germany ^{2/}	255	55	310
Greece.....	31	NA	31
Ireland.....	8	2	10
Italy.....	136	6	142
Netherlands.....	98	0	98
Norway.....	53	0	53
Portugal.....	25	0	25
Spain.....	111	0	111
Sweden.....	31	0	31
Switzerland.....	44	0	44
Turkey.....	53	0	53
United Kingdom.....	102	0	102
OECD Europe.....	1,221	63	1,284
Total OECD.....	2,796	953	3,749

^{1/} U.S. geographic coverage is the 50 States and the District of Columbia.

^{2/} Data are for the unified Germany, i.e., the former East Germany and West Germany.

NA=Not Available.

Notes: •Sum of components may not equal total due to rounding. •Oil Stocks - See Explanatory Note 2 in Appendix B.

•OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group.

Sources: See end of Section 1.

Table 1.7. OECD Oil Demand, 1990-Present

(Thousand Barrels per Day)

		France	Italy	Germany ^{1/}	United Kingdom	OECD Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}	Total OECD
1990	Average....	1,818	1,872	2,382	1,752	12,629	16,988	1,690	5,140	1,027	37,475
1991	Average....	1,935	1,863	2,828	1,801	13,391	16,714	1,622	5,284	1,056	38,067
1992	Average....	1,926	1,937	2,843	1,803	13,605	17,033	1,643	5,446	1,041	38,768
1993	Average....	1,875	1,852	2,900	1,815	13,523	17,237	1,688	5,401	1,118	38,967
1994	Average....	1,833	1,841	2,879	1,837	13,597	17,718	1,727	5,674	1,174	39,890
1995	Average....	1,896	2,048	2,875	1,845	14,120	17,725	1,755	5,711	1,243	40,553
1996	Average....	1,935	2,058	2,911	1,845	14,269	18,309	1,797	5,867	1,192	41,433
1997	Average....	1,955	2,045	2,903	1,799	14,433	18,620	1,857	5,711	1,228	41,850
1998	January....	2,060	2,041	2,742	1,786	14,305	18,362	1,852	6,111	1,157	41,786
	February...	2,169	2,160	2,960	1,834	15,193	18,316	1,819	6,467	1,251	43,047
	March.....	2,008	2,121	3,161	1,857	15,179	18,685	1,832	5,906	1,325	42,927
	April.....	1,998	2,027	2,848	1,708	14,282	19,044	1,796	5,087	1,180	41,389
	May.....	1,815	1,900	2,603	1,687	13,481	18,375	1,735	4,807	1,243	39,642
	June.....	2,031	2,102	2,937	1,784	14,795	19,182	1,888	5,017	1,268	42,150
	July.....	2,107	2,106	3,028	1,768	14,881	19,466	1,953	5,320	1,227	42,848
	August....	1,858	1,886	2,844	1,759	14,019	19,347	1,908	5,286	1,235	41,794
	September..	2,075	2,044	3,027	1,789	14,910	18,895	1,935	5,102	1,186	42,028
	October....	2,010	2,032	2,873	1,801	14,746	19,188	1,931	5,094	1,296	42,255
	November...	2,084	2,219	2,995	1,848	15,359	18,673	1,904	5,617	1,328	42,881
	December...	2,190	2,241	2,987	1,794	15,548	19,419	1,913	6,385	1,236	44,501
	Average....	2,032	2,072	2,916	1,784	14,720	18,917	1,873	5,512	1,244	42,266
1999	January....	1,965	2,077	2,565	1,688	14,065	18,850	1,821	5,880	R1,025	R41,641
	February...	2,232	2,139	3,161	1,881	15,672	19,240	1,923	6,462	R1,162	R44,459
	March.....	2,052	2,023	3,545	1,856	15,838	19,489	1,874	6,185	R1,315	R44,702
	April.....	R1,971	1,903	2,437	1,717	R13,911	18,861	1,774	5,319	R1,214	R41,078
	May.....	R1,713	1,782	2,482	1,636	R13,168	18,142	1,790	4,782	R1,159	R39,042
	June.....	R1,982	1,956	2,695	1,701	R14,252	19,738	1,922	4,963	R1,271	R42,146
	July.....	R1,961	1,951	2,579	1,688	R13,927	19,503	1,930	5,086	R1,143	R41,589
	August....	1,876	1,798	2,735	1,691	13,796	19,883	1,908	5,273	1,161	42,021

^{1/} Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

^{2/} "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

^{3/} U.S. geographic coverage is the 50 States and the District of Columbia.

^{4/} "Other" consists of Australia, New Zealand, and the U.S. Territories.

R=Revised data.

Notes: •The term Demand is used interchangeably with Consumption and Petroleum Products Supplied. See Appendix C for definition. •See Section 4 for historical series.

Sources: See end of Section 1.

Sources for Section 1 (Annual and Monthly Oil Data)

Crude Oil Production, Natural Gas Liquids Production, Other Liquids, and Refinery Gain

United States: Energy Information Administration (EIA), Petroleum Supply Annual 1998 and Petroleum Supply Monthly, November 1999.

Other Countries: Annual data -- EIA, International Energy Annual, various issues. Monthly data -- Denmark, Mexico, Netherlands, Norway, Germany, and all OPEC countries -- Petroleum and Energy Intelligence Weekly, Inc., Petroleum Intelligence Weekly, various issues. All Other Countries -- PennWell Publishing Company, Oil and Gas Journal, various issues. Refinery Gains: National Petroleum Council, U.S. Petroleum Refinery Study, December 1986.

Oil Stocks

United States: EIA, Petroleum Supply Annual 1998 and Petroleum Supply Monthly, November 1999.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues.
• OECD, Monthly Oil Statistics data base, 1990-1999.

Oil Demand

United States: EIA, Petroleum Supply Annual 1998 and Petroleum Supply Monthly, November 1999.

Other OECD Countries: • OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1990-1999.

2. International Oil Balance Data

Table 2.1 World Oil Balance, 1995-1999
 (Million Barrels Per Day)

	1995	1996	1997	1998				1999					
	Annual		Quarter		Annual		Quarter		Annual				
	Average		First	Second	Third	Fourth	Average	First	Second	Third	Fourth	Average	
Supply^{1/}													
OECD													
United States ^{2/}	9.40	9.44	9.46	9.54	9.44	9.01	9.13	9.28	8.98	8.99	9.02	NA	NA
Other OECD.....	9.78	10.26	10.41	10.66	10.43	10.24	10.44	10.44	10.37	10.07	10.34	NA	NA
Total OECD.....	19.18	19.71	19.88	20.21	19.87	19.24	19.58	19.72	19.36	19.06	19.36	NA	NA
Non-OECD													
OPEC.....	27.57	28.02	29.99	30.93	30.76	30.06	29.97	30.43	30.32	28.87	29.19	NA	NA
Former USSR.....	7.14	7.05	7.22	7.29	7.16	7.22	7.30	7.24	7.23	7.31	7.44	NA	NA
Other Non-OECD.....	15.95	16.62	17.25	17.52	17.55	17.48	17.66	17.55	17.85	17.48	17.46	NA	NA
Total Non-OECD.....	50.66	51.69	54.47	55.74	55.46	54.76	54.93	55.22	55.40	53.66	54.08	NA	NA
Total World Supply.....	69.84	71.39	74.34	75.94	75.33	74.00	74.51	74.94	74.76	72.72	73.44	NA	NA
Demand^{3/}													
OECD													
United States ^{2/}	17.72	18.31	18.62	18.46	18.86	19.24	19.10	18.92	19.19	18.91	NA	NA	NA
Other OECD.....	22.83	23.12	23.23	24.11	22.18	22.99	24.12	23.35	24.38	21.83	NA	NA	NA
Total OECD.....	40.55	41.43	41.85	42.57	41.04	42.23	43.22	42.27	43.57	40.74	NA	NA	NA
Non-OECD													
China.....	3.32	3.52	3.79	4.03	3.91	3.85	3.85	3.91	4.14	4.10	NA	NA	NA
Former USSR.....	4.60	4.03	4.26	4.45	4.19	4.15	4.15	4.23	4.32	3.99	NA	NA	NA
Other Non-OECD.....	21.41	22.34	23.11	23.21	23.40	23.38	23.48	23.37	23.52	23.77	NA	NA	NA
Total Non-OECD.....	29.33	29.89	31.16	31.69	31.50	31.38	31.49	31.51	31.98	31.86	NA	NA	NA
Total World Demand.....	69.89	71.32	73.01	74.27	72.54	73.61	74.70	73.78	75.55	72.59	NA	NA	NA
Stock Draws / Discrepancy													
Net Reported Stock Draws ^{4/}													
U. S. Commercial.....	.25	.08	-.15	-.30	-.70	-.02	.15	-.22	.44	-.27	NA	NA	NA
U. S. Strategic.....	.00	.07	.01	.00	.00	-.09	-.02	-.01	-.03	NA	NA	NA	NA
Other OECD.....	.09	-.12	-.13	.36	-.78	-.34	.68	-.02	.14	.14	NA	NA	NA
For Export & Afloat.....	-.12	-.01	-.12	-.44	.22	.22	-.05	-.01	-.22	.82	NA	NA	NA
Commr. Floating Storage...	.00	.00	.00	-.11	-.11	-.22	.11	-.08	.07	.01	NA	NA	NA
Total Reported Draws.....	.22	.01	-.39	-.50	-1.37	-.36	.80	-.36	.41	.67	NA	NA	NA
Other Stock Draws and Statistical Discrepancy ^{5/}	-.17	-.09	-.94	-1.18	-1.41	-.03	-.60	-.80	.38	-.79	NA	NA	NA

^{1/} Supply includes production of crude oil (including lease condensate), natural gas plant liquids, other hydrogen and hydrocarbons for refinery feedstocks, refinery gains, alcohol, and liquids produced from coal and other sources.

^{2/} U.S. geographical coverage is the 50 States and the District of Columbia. See Explanatory Note 1 in Appendix B.

^{3/} The term Demand is used interchangeably with the terms Consumption and Petroleum Products Supplied. See Appendix C for definition.

^{4/} Stock draws are positive numbers, stock additions are negative numbers.

^{5/} This is computed as Total Demand minus the sum of Total Supply and Total Reported Stock Draw.

NA=Not available.

Note: Sum of components may not equal total due to rounding.

Sources: See end of Section 2.

Table 2.2 World Oil Supply, 1995-1999
(Million Barrels Per Day)

	1995	1996	1997	1998				1999					
	Annual		Quarter				Annual		Quarter		Annual		
	Average		First	Second	Third	Fourth	Average		First	Second	Third	Fourth	Average
OECD													
United States ^{1/} ...	9.40	9.44	9.46	9.54	9.44	9.01	9.13	9.28	8.98	8.99	9.02	NA	NA
Canada.....	2.45	2.49	2.62	2.66	2.63	2.75	2.74	2.70	2.58	2.58	2.62	NA	NA
North Sea ^{2/}	5.80	6.22	6.20	6.42	6.17	5.86	6.26	6.18	6.29	6.02	6.21	NA	NA
Other OECD.....	1.53	1.55	1.59	1.58	1.63	1.63	1.44	1.57	1.50	1.47	1.50	NA	NA
Total OECD.....	19.18	19.71	19.88	20.21	19.87	19.24	19.58	19.72	19.36	19.06	19.36	NA	NA
Non-OECD													
OPEC													
Crude													
Algeria.....	1.20	1.24	1.28	1.29	1.25	1.22	1.22	1.25	1.24	1.19	1.19	NA	NA
Indonesia.....	1.50	1.55	1.52	1.52	1.51	1.50	1.54	1.52	1.53	1.52	1.48	NA	NA
Iran.....	3.64	3.69	3.66	3.63	3.77	3.57	3.57	3.63	3.79	3.44	3.51	NA	NA
Iraq.....	.56	.58	1.15	1.59	2.05	2.49	2.45	2.15	2.53	2.57	2.84	NA	NA
Kuwait.....	2.06	2.06	2.08	2.21	2.11	2.02	2.00	2.09	2.01	1.81	1.86	NA	NA
Libya.....	1.39	1.40	1.45	1.45	1.37	1.35	1.34	1.38	1.36	1.30	1.29	NA	NA
Nigeria.....	1.99	2.00	2.33	2.29	2.23	2.06	2.04	2.15	2.09	2.17	2.14	NA	NA
Qatar.....	.44	.51	.65	.73	.70	.68	.67	.70	.72	.68	.68	NA	NA
Saudi Arabia..	8.23	8.22	8.56	8.66	8.51	8.22	8.17	8.39	8.15	7.65	7.68	NA	NA
United Arab Emirates...	2.23	2.28	2.32	2.45	2.35	2.29	2.29	2.35	2.27	2.14	2.14	NA	NA
Venezuela.....	2.75	2.94	3.31	3.42	3.23	3.00	3.02	3.17	2.99	2.78	2.76	NA	NA
Natural Gas													
Plant Liquids	1.51	1.50	1.61	1.63	1.62	1.59	1.59	1.61	1.59	1.55	1.55	NA	NA
Processing Gain.	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	NA	NA
Total OPEC.....	27.57	28.02	29.99	30.93	30.76	30.06	29.97	30.43	30.32	28.87	29.19	NA	NA
Former USSR.....	7.14	7.05	7.22	7.29	7.16	7.22	7.30	7.24	7.23	7.31	7.44	NA	NA
China.....	2.99	3.13	3.20	3.19	3.20	3.20	3.20	3.20	3.23	3.19	3.19	NA	NA
Mexico.....	3.09	3.31	3.44	3.57	3.57	3.48	3.48	3.52	3.56	3.35	3.33	NA	NA
Other Non-OECD....	9.87	10.18	10.62	10.76	10.78	10.79	10.98	10.83	11.06	10.94	10.93	NA	NA
Total Non-OECD....	50.66	51.69	54.47	55.74	55.46	54.76	54.93	55.22	55.40	53.66	54.08	NA	NA
Total Supply.....	69.84	71.39	74.34	75.94	75.33	74.00	74.51	74.94	74.76	72.72	73.44	NA	NA

^{1/} U.S. geographic coverage is the 50 States and the District of Columbia.

^{2/} North Sea includes the United Kingdom Offshore, Norway, Denmark, Netherlands Offshore, and Germany Offshore.

NA=Not available.

Notes: •Supply includes crude oil (including lease condensate), natural gas plant liquids, (except for individual OPEC countries), other hydrogen and hydrocarbons for refinery feedstocks, alcohol, liquids produced from coal and other sources, and processing gain (except for individual OPEC countries). For OPEC, natural gas plant liquids production and processing gain are shown as separate lines. •Sum of components may not equal total due to rounding.

Sources: See end of Section 2.

Table 2.3 Oil Stocks, End of Period
(Million Barrels)

	1995	1996	1997	1998				1999			
	Year End		Quarter				Quarter				
				First	Second	Third	Fourth	First	Second	Third	Fourth
OECD											
United States ^{1/}											
Commercial.....	971	941	997	1,024	1,088	1,089	1,076	1,036	1,061	NA	NA
Strategic.....	592	566	563	563	563	563	571	572	575	NA	NA
U. S. Territories.....	24	25	23	25	28	29	22	22	22	NA	NA
Canada.....	109	103	115	123	116	120	118	124	116	NA	NA
Japan.....	630	651	685	655	658	676	649	634	638	NA	NA
OECD Europe											
France.....	159	158	164	155	164	170	161	169	167	NA	NA
Germany.....	301	300	298	285	308	317	321	306	310	NA	NA
Italy.....	162	152	147	146	164	158	153	149	142	NA	NA
United Kingdom.....	107	108	105	109	109	107	108	109	102	NA	NA
Other OECD Europe....	499	537	542	551	567	573	560	562	564	NA	NA
Total.....	1,228	1,256	1,256	1,245	1,312	1,325	1,304	1,295	1,284	NA	NA
Australia & New Zealand	47	49	51	49	54	50	44	50	52	NA	NA
Total OECD.....	3,601	3,591	3,689	3,684	3,819	3,853	3,784	3,733	3,749	NA	NA
Stocks for Export											
and Afloat ^{2/}	980	985	1,030	1,070	1,050	1,030	1,035	1,055	980	NA	NA
Commercial Floating ^{3/}	70	70	70	80	90	110	100	94	93	NA	NA

^{1/} U.S. stock data include Alaskan crude oil in transit by water. These data were previously reported in stocks for export and afloat. U.S. geographic coverage is the 50 States and the District of Columbia.

^{2/} Stocks held at export terminals of major crude oil producing countries and commercial oil afloat based on quarterly analysis of world seaborne movements.

^{3/} Stocks stored by industry in tankers moored offshore. Excludes strategic storage.

Notes: •Oil Stocks - See Note 2 in Appendix B. •Sum of components may not equal total due to rounding.

Sources: See end of Section 2.

Table 2.4 World Oil Demand, 1995-1999
(Million Barrels Per Day)

	1995	1996	1997	1998						1999				
				Annual				Quarter		Annual		Quarter		Annual
				Average	First	Second	Third	Fourth	Average	First	Second	Third	Fourth	Average
OECD														
United States ¹ /.....	17.72	18.31	18.62	18.46	18.86	19.24	19.10	18.92	19.19	18.91	NA	NA	NA	NA
U. S. Territories.....	.25	.26	.28	.30	.26	.27	.29	.28	.21	.23	NA	NA	NA	NA
Canada.....	1.76	1.80	1.86	1.83	1.81	1.93	1.92	1.87	1.87	1.83	NA	NA	NA	NA
Japan.....	5.71	5.87	5.71	6.15	4.97	5.24	5.70	5.51	6.17	5.02	NA	NA	NA	NA
OECD Europe ² /														
France.....	1.90	1.93	1.96	2.08	1.95	2.01	2.09	2.03	2.08	1.89	NA	NA	NA	NA
Italy.....	2.05	2.06	2.04	2.11	2.01	2.01	2.16	2.07	2.08	1.88	NA	NA	NA	NA
United Kingdom.....	1.84	1.85	1.80	1.83	1.73	1.77	1.81	1.78	1.81	1.68	NA	NA	NA	NA
Germany ³ /.....	2.88	2.91	2.90	2.95	2.79	2.97	2.95	2.92	3.09	2.54	NA	NA	NA	NA
Other OECD Europe....	5.45	5.52	5.73	5.92	5.70	5.84	6.19	5.91	6.13	5.78	NA	NA	NA	NA
Total OECD Europe....	14.12	14.27	14.43	14.88	14.18	14.60	15.22	14.72	15.18	13.77	NA	NA	NA	NA
Australia & New Zealand	.99	.93	.95	.95	.97	.94	1.00	.96	.96	.99	NA	NA	NA	NA
Total OECD.....	40.55	41.43	41.85	42.57	41.04	42.23	43.22	42.27	43.57	40.74	NA	NA	NA	NA
Non-OECD														
China.....	3.32	3.52	3.79	4.03	3.91	3.85	3.85	3.91	4.14	4.10	NA	NA	NA	NA
Former USSR.....	4.60	4.03	4.26	4.45	4.19	4.15	4.15	4.23	4.32	3.99	NA	NA	NA	NA
Other Non-OECD.....	21.41	22.34	23.11	23.21	23.40	23.38	23.48	23.37	23.52	23.77	NA	NA	NA	NA
Total Non-OECD.....	29.33	29.89	31.16	31.69	31.50	31.38	31.49	31.51	31.98	31.86	NA	NA	NA	NA
Total World Demand.....	69.89	71.32	73.01	74.27	72.54	73.61	74.70	73.78	75.55	72.59	NA	NA	NA	NA

1/ U.S. geographic coverage is the 50 States and the District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

Notes: •Oil demand includes bunkers and refinery fuel. The term Demand is used interchangeably with the terms Consumption and Petroleum Products Supplied. See Appendix C for definition. •Sum of components may not equal total due to rounding.

Sources: See end of Section 2.

Sources for Section 2 (International Oil Balance Data)

Crude Oil Production, Natural Gas Liquids Production, Other Liquids, and Refinery Gain

United States: Energy Information Administration (EIA), Petroleum Supply Annual 1998 and Petroleum Supply Monthly, November 1999.

Other Countries: Annual data -- EIA, International Energy Annual, various issues. Monthly data -- Canada -- Maclean Hunter Publishing Company, Oilweek, various issues. Denmark, Mexico, Netherlands, Norway, Germany, and all OPEC countries -- Petroleum and Energy Intelligence Weekly, Inc., Petroleum Intelligence Weekly, various issues. Other Countries -- PennWell Publishing Company, Oil and Gas Journal, various issues. Refinery Gains: National Petroleum Council, U.S. Petroleum Refinery Study, December 1986.

Oil Stocks

United States: EIA, Petroleum Supply Annual 1998 and Petroleum Supply Monthly, November 1999.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1995-1999. Stocks for Export and Afloat and Commercial Floating Stocks -- Petroleum Economics Limited, Oil Industry Developments, various issues.

Oil Demand

United States: EIA, Petroleum Supply Annual 1998 and Petroleum Supply Monthly, November 1999.

Other OECD Countries: • OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1995-1999.

OPEC Countries: EIA, International Energy Annual, various issues and Short-Term Energy Outlook, various issues.

Other countries: EIA, International Energy Annual, various issues and Short-Term Energy Outlook, various issues.

3. International Oil Imports

Table 3.1 Average Net Oil Imports into OECD Countries, (1998 Average)
(Million Barrels per Day)

	OECD Europe							OECD Outside Europe			
	Total	United Kingdom	France	Germany ^{1/}	Italy	Other Europe ^{2/}	United States ^{3/}	Canada			
									Japan	Other ^{4/}	
Total Net Imports..	22.401	7.739	-1.030	1.855	2.860	1.809	2.245	9.764	-0.917	5.352	0.463
Imports from OPEC ^{5/}	17.048	6.693	.213	1.029	.656	1.421	3.373	4.881	.297	4.467	.710
Imports from Persian Gulf ^{6/}											
Total.....	10.551	3.953	.108	.730	.163	.658	2.295	2.131	.098	4.132	.237
Bahrain.....	.021	.004	.000	.002	.000	.002	.000	-.001	.000	.016	.003
Iran.....	1.497	1.021	.009	.157	.020	.273	.561	.000	.000	.473	.003
Iraq.....	1.109	.724	-	.171	.020	.108	.426	.336	.014	.017	.017
Kuwait.....	1.089	.275	.025	.019	.016	.000	.215	.301	.000	.507	.006
U.A.E.....	1.467	.019	.001	.012	.000	.000	.006	.000	-	1.402	.046
Qatar.....	.468	.000	.000	.000	.000	.000	.000	.004	-	.450	.014
Saudi Arabia.....	4.901	1.910	.073	.369	.106	.274	1.087	1.491	.084	1.268	.149
Imports from OPEC-Africa											
Total.....	3.751	2.505	.078	.301	.447	.723	.956	.983	.094	.025	.143
Algeria.....	1.078	.708	.021	.115	.127	.083	.362	.290	.071	.012	-.003
Libya.....	1.297	1.297	.046	.061	.277	.601	.312	.000	-	-	.000
Nigeria.....	1.376	.501	.011	.126	.043	.039	.282	.693	.023	.013	.146
Imports from OPEC-South America											
Total.....	2.199	.215	.028	.000	.046	.020	.121	1.701	.106	.000	.177
Venezuela.....	2.199	.215	.028	.000	.046	.020	.121	1.701	.106	.000	.177
Imports from OPEC-Far East											
Total.....	.569	.024	-	.000	.000	.023	.000	.065	.000	.326	.154
Indonesia.....	.569	.024	-	.000	.000	.023	.000	.065	.000	.326	.154

^{1/} The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

^{2/} "Other Europe" consists of Austria, Belgium, Denmark, Finland, Greece, Iceland, Ireland, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and Turkey.

^{3/} U.S. geographic coverage is the 50 States and District of Columbia.

^{4/} "Other" consists of Australia, New Zealand, and U. S. Territories.

^{5/} OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

^{6/} The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.2 Net Oil Imports into OECD Countries, (2nd Quarter 1999)
 (Million Barrels per Day)

	OECD Europe							OECD Outside Europe			
	Total	United Kingdom	France	Germany ^{1/}	Italy	Other Europe ^{2/}	United States ^{3/} Canada	Japan		Other ^{4/}	
								Total			
Total Net Imports..	21.631	7.008	-1.154	1.824	2.464	1.598	2.275	9.900	-0.895	5.003	0.615
Imports from OPEC ^{5/}	15.957	5.815	.149	.938	.566	1.224	2.938	5.097	.187	4.140	.719
Imports from Persian Gulf ^{6/}											
Total.....	9.817	3.244	.034	.660	.129	.601	1.821	2.504	.041	3.816	.212
Bahrain.....	.015	.003	-	.003	-	.000	-	.000	.000	.012	.000
Iran.....	1.315	.931	.000	.144	.016	.271	.500	.000	.000	.384	.000
Iraq.....	1.606	.678	-	.157	.001	.125	.395	.745	.000	.127	.056
Kuwait.....	.967	.198	.003	.017	.019	.000	.158	.257	.000	.503	.009
U.A.E.....	1.257	.006	.005	.000	.000	.000	.000	.005	-	1.205	.041
Qatar.....	.416	.000	-	.000	-	-	.000	.010	-	.407	.000
Saudi Arabia.....	4.242	1.430	.026	.338	.093	.205	.768	1.486	.041	1.178	.106
Imports from OPEC-Africa											
Total.....	3.530	2.355	.086	.276	.377	.615	1.002	1.016	.076	.005	.078
Algeria.....	1.014	.666	.012	.115	.095	.096	.349	.281	.053	.005	.008
Libya.....	1.210	1.210	.032	.066	.279	.495	.338	.000	-	-	.000
Nigeria.....	1.307	.479	.042	.095	.004	.024	.315	.735	.023	.000	.070
Imports from OPEC-South America											
Total.....	2.072	.217	.029	.003	.060	.009	.116	1.499	.070	.002	.284
Venezuela.....	2.072	.217	.029	.003	.060	.009	.116	1.499	.070	.002	.284
Imports from OPEC-Far East											
Total.....	.552	.001	-	.001	.000	.000	.000	.078	-	.329	.144
Indonesia.....	.552	.001	-	.001	.000	.000	.000	.078	-	.329	.144

1/ The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

2/ "Other Europe" consists of Austria, Belgium, Denmark, Finland, Greece, Iceland, Ireland, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and Turkey.

3/ U.S. geographic coverage is the 50 States and District of Columbia.

4/ "Other" consists of Australia, New Zealand, and U. S. Territories.

5/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

6/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.3 Net Oil Imports into OECD Countries, (1st Quarter 1999)
(Million Barrels per Day)

	OECD Europe							OECD Outside Europe			
	Total	United Kingdom	France	Germany ^{1/}	Italy	Other Europe ^{2/}	United States ^{3/}	Canada			
									Japan	Other ^{4/}	
Total Net Imports..	23.286	8.007	-1.045	1.960	2.810	1.855	2.428	9.563	-0.799	5.929	0.585
Imports from OPEC ^{5/}	17.147	6.401	.123	.927	.626	1.417	3.308	4.952	.293	4.822	.681
Imports from Persian Gulf ^{6/}											
Total.....	10.926	3.706	.045	.686	.142	.633	2.200	2.433	.126	4.461	.200
Bahrain.....	.026	.006	-	.006	-	.000	-	.000	.000	.019	.000
Iran.....	1.691	1.095	.000	.135	.004	.341	.616	.000	.000	.596	.000
Iraq.....	1.543	.814	-	.185	.041	.091	.497	.647	.034	.011	.036
Kuwait.....	1.016	.235	.000	.032	.014	.000	.189	.221	.000	.559	.001
U.A.E.....	1.494	.001	.000	.001	.000	.000	.000	-.003	-	1.475	.022
Qatar.....	.458	.000	-	.000	-	-	.000	.012	-	.446	.001
Saudi Arabia.....	4.697	1.555	.045	.327	.084	.202	.898	1.557	.092	1.354	.139
Imports from OPEC-Africa											
Total.....	3.556	2.428	.056	.243	.456	.778	.896	.923	.059	.052	.093
Algeria.....	1.025	.710	.022	.098	.105	.137	.348	.248	.049	.017	.001
Libya.....	1.253	1.253	.034	.044	.297	.576	.302	.000	-	-	.000
Nigeria.....	1.278	.465	.000	.100	.053	.066	.246	.675	.011	.035	.092
Imports from OPEC-South America											
Total.....	2.128	.272	.022	.003	.028	.006	.212	1.535	.107	.000	.215
Venezuela.....	2.128	.272	.022	.003	.028	.006	.212	1.535	.107	.000	.215
Imports from OPEC-Far East											
Total.....	.563	.001	-	.000	.000	.000	.000	.061	-	.328	.173
Indonesia.....	.563	.001	-	.000	.000	.000	.000	.061	-	.328	.173

^{1/} The data for Germany are for unified Germany, i.e., the former East Germany and West Germany.

^{2/} "Other Europe" consists of Austria, Belgium, Denmark, Finland, Greece, Iceland, Ireland, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and Turkey.

^{3/} U.S. geographic coverage is the 50 States and District of Columbia.

^{4/} "Other" consists of Australia, New Zealand, and U. S. Territories.

^{5/} OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

^{6/} The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.4 OECD Total Net Imports (Most Recent 12 Months)
 (Million Barrels per Day)

	1998				1999							
	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August
Total.....	22.389	22.896	22.662	22.100	23.699	21.899	24.124	23.067	21.283	20.554	21.940	22.695
United States ^{1/}	9.636	10.011	10.078	9.365	9.285	9.580	9.825	10.031	9.950	9.717	10.332	8.684
Canada.....	-.763	-.878	-.871	-.992	-.752	-1.083	-.588	-.899	-.895	-.892	-.891	-.787
OECD Europe ^{2/}	7.857	8.175	7.423	7.584	8.860	6.965	8.096	7.805	6.924	6.297	6.587	7.200
Main European Importers												
France.....	1.890	1.817	1.902	1.844	2.043	1.949	1.888	1.712	1.897	1.861	1.738	1.910
Germany ^{3/}	2.827	2.876	2.817	2.930	2.763	2.672	2.980	2.703	2.399	2.294	2.467	2.334
Italy.....	1.662	1.877	1.861	1.782	2.043	1.598	1.899	1.666	1.631	1.497	1.589	1.778
Spain.....	1.384	1.327	1.379	1.572	1.410	1.310	1.631	1.423	1.278	1.338	1.297	1.377
Netherlands.....	.701	.853	.733	.615	1.009	.604	.699	.831	.877	.719	.744	.680
European Net Exporters												
Norway.....	-2.939	-2.806	-2.974	-3.088	-2.828	-3.226	-3.021	-2.619	-2.881	-3.149	-2.867	-2.803
United Kingdom.....	-.977	-1.053	-1.362	-1.040	-1.055	-1.052	-1.029	-1.215	-1.074	-1.176	-1.302	-1.139
Smaller European Importers												
Austria.....	.243	.224	.239	.223	.240	.219	.232	.235	.225	.250	.247	.224
Belgium.....	.609	.594	.585	.632	.554	.675	.529	.694	.533	.475	.462	.603
Denmark.....	.018	-.025	-.009	-.035	.006	-.073	-.039	-.058	-.026	-.101	-.104	-.068
Ireland.....	.137	.141	.178	.147	.166	.162	.156	.195	.163	.133	.176	.149
Finland.....	.253	.273	.181	.163	.304	.087	.177	.181	.293	.210	.236	.170
Greece.....	.428	.374	.304	.395	.403	.490	.422	.289	.259	.310	.346	.361
Iceland.....	.021	.017	.021	.009	.018	.011	.025	.019	.010	.020	.034	.014
Luxembourg.....	.044	.044	.042	.049	.041	.043	.048	.045	.043	.041	.044	.041
Portugal.....	.313	.331	.359	.216	.404	.310	.339	.415	.313	.362	.368	.378
Sweden.....	.362	.382	.376	.331	.411	.371	.373	.419	.301	.400	.280	.301
Switzerland.....	.253	.270	.236	.273	.256	.249	.262	.274	.202	.293	.290	.252
Turkey.....	.629	.661	.555	.566	.672	.564	.525	.595	.480	.521	.542	.638
Japan.....	5.257	5.254	5.247	5.645	5.725	5.904	6.155	5.375	4.834	4.806	5.334	5.785
Other OECD.....	.401	.334	.785	.498	.582	.532	.636	.755	.471	.625	.578	1.813

^{1/} U.S. geographic coverage is the 50 States and District of Columbia.

^{2/} "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

^{3/} The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.5 OECD Imports from OPEC (Most Recent 12 Months)
 (Million Barrels per Day)

	1998						1999					
	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August
Total.....	16.631	17.174	17.031	16.886	17.161	16.777	17.468	17.280	15.208	15.409	15.426	16.761
United States ^{1/}	4.734	5.157	4.821	4.542	4.713	5.043	5.108	5.560	4.880	4.857	4.852	4.916
Canada.....	.273	.312	.302	.212	.342	.188	.338	.248	.195	.116	.292	.333
OECD Europe ^{2/}	6.610	6.741	6.686	6.684	6.893	6.087	6.191	6.154	5.541	5.759	5.487	6.175
Main European Importers												
France.....	1.113	.840	.976	1.109	.941	1.088	.767	.871	.972	.969	.837	.978
Germany ^{3/}.....	.620	.701	.668	.765	.699	.557	.615	.680	.497	.524	.594	.560
Italy.....	1.260	1.525	1.494	1.311	1.560	1.195	1.475	1.345	1.261	1.065	1.079	1.170
Spain.....	.789	.928	.870	.904	.879	.804	.796	.804	.726	.759	.750	.865
Netherlands.....	.988	.896	.828	.934	.960	.854	.801	.752	.702	.799	.856	.703
European Net Exporters												
Norway.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000
United Kingdom....	.171	.160	.211	.189	.152	.110	.105	.145	.180	.121	.059	.239
Smaller European Importers												
Austria.....	.141	.131	.131	.103	.118	.091	.126	.113	.121	.093	.103	.125
Belgium.....	.348	.354	.309	.336	.241	.157	.280	.290	.190	.219	.262	.426
Denmark.....	.032	.048	.033	.032	.031	.027	.035	.039	.025	.029	.019	.007
Finland.....	.000	.001	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000
Greece.....	.428	.290	.334	.349	.374	.352	.345	.230	.256	.310	.291	.363
Portugal.....	.145	.164	.225	.104	.150	.134	.207	.218	.140	.234	.135	.103
Sweden.....	.024	.091	.091	.058	.158	.090	.093	.081	.019	.155	.040	.081
Switzerland.....	.097	.113	.093	.109	.095	.090	.115	.103	.080	.110	.107	.101
Turkey.....	.452	.496	.424	.380	.534	.538	.430	.482	.373	.371	.356	.453
Japan.....	4.383	4.358	4.344	4.675	4.573	4.809	5.082	4.501	3.935	3.992	4.138	4.648
Other OECD.....	.631	.606	.878	.773	.641	.650	.749	.818	.656	.685	.657	.689

^{1/} U.S. geographic coverage is the 50 States and District of Columbia.

^{2/} "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

^{3/} The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development; OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.6 OECD Imports from Persian Gulf (Most Recent 12 Months)
 (Million Barrels per Day)

	1998						1999					
	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August
Total.....	10.742	10.275	10.741	10.523	10.502	10.714	11.542	10.466	9.402	9.597	9.750	10.514
United States ^{1/}	2.382	2.187	2.149	2.114	2.111	2.393	2.791	2.585	2.444	2.484	2.390	2.411
Canada.....	.024	.140	.151	.034	.143	.049	.179	.044	.038	.042	.107	.185
OECD Europe ^{2/}	4.075	3.800	4.135	3.908	3.892	3.560	3.653	3.456	3.061	3.222	3.236	3.435
Main European Importers												
France.....	.805	.571	.706	.694	.677	.735	.652	.663	.652	.666	.600	.601
Germany ^{3/}.....	.177	.206	.141	.204	.171	.151	.105	.147	.126	.113	.202	.135
Italy.....	.635	.778	.764	.658	.616	.598	.682	.677	.621	.503	.551	.562
Spain.....	.324	.367	.458	.404	.390	.398	.399	.380	.253	.290	.324	.392
Netherlands.....	.825	.696	.685	.785	.805	.650	.675	.569	.563	.614	.677	.490
European Net Exporters												
Norway.....	.000	.000	.000	.000	-	-	-	-	-	-	-	-
United Kingdom....	.089	.056	.123	.064	.082	.028	.023	.043	.009	.050	.001	.018
Smaller European Importers												
Austria.....	.054	.055	.067	.064	.017	.017	.041	.046	.053	.042	.044	.023
Belgium.....	.316	.289	.267	.307	.191	.093	.215	.225	.159	.185	.212	.373
Denmark.....	.013	.024	.001	.000	.000	.000	.000	.000	.000	.000	.019	.007
Finland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Greece.....	.395	.277	.321	.304	.356	.316	.319	.197	.229	.278	.248	.323
Portugal.....	.114	.096	.194	.099	.084	.133	.150	.128	.074	.126	.112	.084
Sweden.....	.000	.063	.070	.058	.131	.075	.068	.067	.000	.127	.000	.064
Switzerland.....	.006	.010	.005	.000	.000	.000	.000	.010	.012	.005	.009	.014
Turkey.....	.322	.312	.331	.267	.371	.366	.323	.304	.309	.225	.238	.349
Japan.....	4.015	4.030	3.985	4.322	4.163	4.522	4.704	4.116	3.684	3.652	3.760	4.210
Other OECD.....	.246	.118	.321	.146	.193	.190	.215	.264	.176	.197	.257	.274

^{1/} U.S. geographic coverage is the 50 States and District of Columbia.

^{2/} "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

^{3/} The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •"Persian Gulf" consists of Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.7 United States--Net Oil Imports (Most Recent 12 Months)
 (Million Barrels per Day)

	1998						1999					
	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August
Total Net Imports..	9.636	10.011	10.078	9.365	9.285	9.580	9.825	10.031	9.950	9.717	10.332	8.684
Imports from OPEC ¹ /	4.734	5.157	4.821	4.542	4.713	5.043	5.108	5.560	4.880	4.857	4.852	4.916
Imports from Persian Gulf ² /												
Total.....	2.382	2.187	2.149	2.114	2.111	2.393	2.791	2.585	2.444	2.484	2.390	2.411
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iran.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iraq.....	.517	.636	.542	.486	.471	.681	.791	.824	.720	.691	.670	.660
Kuwait.....	.259	.241	.224	.228	.132	.205	.324	.286	.227	.259	.311	.348
U.A.E.....	.000	-.006	-.003	-.002	-.003	-.003	-.003	.000	-.003	.019	-.003	-.009
Qatar.....	.000	.000	.000	.000	.000	.000	.034	.031	.000	.000	.000	.018
Saudi Arabia.....	1.606	1.316	1.386	1.402	1.511	1.510	1.645	1.444	1.500	1.515	1.412	1.394
Imports from OPEC-Africa												
Total.....	.808	.917	.793	.690	.919	.890	.957	1.205	.899	.948	.938	1.049
Algeria.....	.306	.289	.219	.200	.240	.203	.298	.304	.293	.245	.302	.249
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Nigeria.....	.502	.628	.574	.490	.679	.687	.659	.901	.606	.703	.636	.800
Imports from OPEC-South America												
Total.....	1.471	1.952	1.696	1.639	1.604	1.694	1.321	1.674	1.455	1.369	1.486	1.384
Venezuela.....	1.471	1.952	1.696	1.639	1.604	1.694	1.321	1.674	1.455	1.369	1.486	1.384
Imports from OPEC-Far East												
Total.....	.073	.101	.183	.099	.079	.066	.039	.096	.082	.056	.038	.072
Indonesia.....	.073	.101	.183	.099	.079	.066	.039	.096	.082	.056	.038	.072

¹/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

²/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •U.S. geographic coverage is the 50 States and District of Columbia. •Negative numbers represent net exports. •A dash (-) indicates no trade.

•Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.8 Japan--Net Oil Imports (Most Recent 12 Months)
 (Million Barrels per Day)

	1998						1999					
	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August
Total Net Imports..	5.257	5.254	5.247	5.645	5.725	5.904	6.155	5.375	4.834	4.806	5.334	5.785
Imports from OPEC ¹ /	4.383	4.358	4.344	4.675	4.573	4.809	5.082	4.501	3.935	3.992	4.138	4.648
Imports from Persian Gulf ² /												
Total.....	4.015	4.030	3.985	4.322	4.163	4.522	4.704	4.116	3.684	3.652	3.760	4.210
Bahrain.....	.010	.028	.022	.015	.020	.031	.008	.000	.015	.022	.016	.009
Iran.....	.477	.432	.416	.761	.418	.584	.785	.370	.337	.447	.439	.649
Iraq.....	.073	.103	.032	.000	.000	.036	.000	.135	.096	.152	.000	.296
Kuwait.....	.482	.501	.505	.510	.492	.602	.588	.494	.577	.435	.483	.468
U.A.E.....	1.349	1.395	1.297	1.488	1.502	1.411	1.507	1.470	1.037	1.113	1.167	1.150
Qatar.....	.428	.387	.462	.361	.457	.422	.456	.470	.405	.344	.435	.588
Saudi Arabia.....	1.196	1.184	1.250	1.185	1.273	1.436	1.361	1.177	1.216	1.138	1.221	1.050
Imports from OPEC-Africa												
Total.....	.045	.096	.028	.000	.138	.014	.000	.000	.000	.016	.016	.023
Algeria.....	.025	.006	.028	.000	.050	.000	.000	.000	.000	.016	.016	.023
Nigeria.....	.020	.090	.000	.000	.088	.014	.000	.000	.000	.000	.000	.000
Imports from OPEC-South America												
Total.....	.000	.000	.000	.000	.000	.000	.001	.000	.000	.007	.001	.000
Venezuela.....	.000	.000	.000	.000	.000	.000	.001	.000	.000	.007	.001	.000
Imports from OPEC-Far East												
Total.....	.334	.260	.353	.369	.292	.305	.385	.384	.267	.338	.378	.425
Indonesia.....	.334	.260	.353	.369	.292	.305	.385	.384	.267	.338	.378	.425

¹/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

²/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis.

•Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.9 OECD Europe--Net Oil Imports (Most Recent 12 Months)
(Million Barrels per Day)

	1998						1999					
	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August
Total Net Imports..	7.857	8.175	7.423	7.584	8.860	6.965	8.096	7.805	6.924	6.297	6.587	7.200
Imports from OPEC ¹ /	6.610	6.741	6.686	6.684	6.893	6.087	6.191	6.154	5.541	5.759	5.487	6.175
Imports from Persian Gulf ² /												
Total.....	4.075	3.800	4.135	3.908	3.892	3.560	3.653	3.456	3.061	3.222	3.236	3.435
Bahrain.....	.011	.001	.000	.000	.006	.007	.006	.003	.002	.002	.000	.000
Iran.....	1.056	1.008	1.104	.897	.979	1.060	1.243	1.135	.885	.775	.849	1.047
Iraq.....	.904	.729	.726	.934	.971	.802	.668	.626	.652	.755	.789	.873
Kuwait.....	.391	.304	.188	.395	.279	.166	.253	.129	.236	.227	.099	.257
U.A.E.....	.004	.000	.000	.084	.001	.000	.001	.008	.008	.000	.003	.005
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	1.709	1.758	2.117	1.598	1.656	1.524	1.482	1.556	1.277	1.462	1.495	1.252
Imports from OPEC-Africa												
Total.....	2.351	2.626	2.307	2.624	2.806	2.211	2.246	2.402	2.336	2.328	2.094	2.573
Algeria.....	.709	.739	.737	.835	.826	.639	.658	.714	.714	.569	.652	.702
Libya.....	1.210	1.341	1.247	1.317	1.349	1.174	1.228	1.248	1.092	1.293	1.134	1.417
Nigeria.....	.432	.546	.323	.472	.632	.399	.359	.441	.530	.465	.308	.453
Imports from OPEC-South America												
Total.....	.195	.312	.236	.151	.198	.323	.298	.296	.147	.211	.157	.166
Venezuela.....	.195	.312	.236	.151	.198	.323	.298	.296	.147	.211	.157	.166
Imports from OPEC-Far East												
Total.....	.000	.004	.008	.001	.001	.000	.000	.002	.000	.001	.000	.001
Indonesia.....	.000	.004	.008	.001	.001	.000	.000	.002	.000	.001	.000	.001

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. Data for France in January and February 1999 are not available. •"OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day.

•See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.10 France--Net Oil Imports (Most Recent 12 Months)
(Million Barrels per Day)

	1998						1999					
	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August
Total Net Imports..	1.890	1.817	1.902	1.844	2.043	1.949	1.888	1.712	1.897	1.861	1.738	1.910
Imports from OPEC ^{1/}	1.113	.840	.976	1.109	.941	1.088	.767	.871	.972	.969	.837	.978
Imports from Persian Gulf ^{2/}												
Total.....	.805	.571	.706	.694	.677	.735	.652	.663	.652	.666	.600	.601
Bahrain.....	.011	.001	.000	.000	.006	.007	.006	.003	.002	.002	.000	.000
Iran.....	.100	.118	.155	.132	.100	.112	.192	.132	.123	.180	.094	.185
Iraq.....	.254	.125	.104	.189	.265	.139	.148	.156	.178	.136	.196	.098
Kuwait.....	.065	.003	.000	.000	.019	.022	.054	.002	.027	.023	.000	.064
U.A.E.....	.000	.000	.000	.059	.001	.000	.001	.000	.000	.000	.000	.000
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	.375	.324	.447	.313	.287	.456	.251	.370	.322	.325	.310	.254
Imports from OPEC-Africa												
Total.....	.319	.269	.269	.416	.270	.356	.113	.209	.322	.295	.228	.377
Algeria.....	.120	.124	.174	.122	.143	.106	.047	.059	.154	.130	.077	.103
Libya.....	.063	.025	.060	.141	.027	.047	.060	.069	.047	.083	.055	.118
Nigeria.....	.136	.121	.035	.153	.101	.204	.006	.081	.121	.082	.096	.156
Imports from OPEC-South America												
Total.....	.000	.000	.000	.000	.000	.003	.008	.000	.000	.010	.009	.000
Venezuela.....	.000	.000	.000	.000	.000	.003	.008	.000	.000	.010	.009	.000
Imports from OPEC-Far East												
Total.....	.000	.001	.000	.000	.001	.000	.000	.002	.000	.000	.000	.001
Indonesia.....	.000	.001	.000	.000	.001	.000	.000	.002	.000	.000	.000	.001

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.11 Germany--Net Oil Imports (Most Recent 12 Months)
(Million Barrels per Day)

	1998						1999					
	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August
Total Net Imports..	2.827	2.876	2.817	2.930	2.763	2.672	2.980	2.703	2.399	2.294	2.467	2.334
Imports from OPEC ^{1/}	.620	.701	.668	.765	.699	.557	.615	.680	.497	.524	.594	.560
Imports from Persian Gulf ^{2/}												
Total.....	.177	.206	.141	.204	.171	.151	.105	.147	.126	.113	.202	.135
Bahrain.....	.000	.000	.000	.000	-	-	-	-	-	-	-	-
Iran.....	.026	.046	.020	.010	.000	.006	.005	.018	.017	.013	.024	.019
Iraq.....	.014	.023	.018	.078	.085	.036	.001	.000	.001	.001	.031	.013
Kuwait.....	.022	.016	.005	.016	.010	.012	.020	.037	.006	.016	.022	.019
U.A.E.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Qatar.....	.000	.000	.000	.000	-	-	-	-	-	-	-	-
Saudi Arabia.....	.115	.122	.098	.100	.076	.097	.079	.093	.103	.083	.125	.085
Imports from OPEC-Africa												
Total.....	.405	.403	.519	.531	.514	.368	.477	.430	.339	.364	.347	.384
Algeria.....	.077	.097	.214	.169	.122	.079	.111	.151	.091	.042	.079	.054
Libya.....	.292	.287	.240	.311	.333	.270	.286	.269	.248	.322	.267	.330
Nigeria.....	.037	.019	.065	.050	.059	.019	.079	.011	.000	.000	.000	.000
Imports from OPEC-South America												
Total.....	.038	.092	.008	.030	.015	.039	.033	.103	.032	.047	.045	.040
Venezuela.....	.038	.092	.008	.030	.015	.039	.033	.103	.032	.047	.045	.040
Imports from OPEC-Far East												
Total.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Indonesia.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.12 Italy--Net Oil Imports (Most Recent 12 Months)
(Million Barrels per Day)

	1998						1999					
	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August
Total Net Imports..	1.662	1.877	1.861	1.782	2.043	1.598	1.899	1.666	1.631	1.497	1.589	1.778
Imports from OPEC ^{1/}	1.260	1.525	1.494	1.311	1.560	1.195	1.475	1.345	1.261	1.065	1.079	1.170
Imports from Persian Gulf ^{2/}												
Total.....	.635	.778	.764	.658	.616	.598	.682	.677	.621	.503	.551	.562
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iran.....	.276	.394	.279	.306	.332	.356	.337	.315	.297	.199	.248	.232
Iraq.....	.187	.130	.123	.099	.082	.080	.109	.130	.098	.149	.190	.183
Kuwait.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
U.A.E.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Qatar.....	.000	.000	.000	.000	-	-	-	-	-	-	-	-
Saudi Arabia.....	.171	.254	.362	.253	.203	.162	.237	.232	.226	.155	.113	.147
Imports from OPEC-Africa												
Total.....	.617	.737	.678	.642	.936	.597	.784	.661	.626	.556	.519	.600
Algeria.....	.079	.072	.062	.102	.185	.105	.117	.108	.099	.080	.081	.082
Libya.....	.530	.618	.578	.505	.627	.485	.607	.517	.493	.475	.438	.499
Nigeria.....	.007	.047	.038	.035	.124	.008	.060	.036	.035	.000	.000	.020
Imports from OPEC-South America												
Total.....	.009	.007	.044	.011	.007	.000	.010	.006	.014	.006	.009	.008
Venezuela.....	.009	.007	.044	.011	.007	.000	.010	.006	.014	.006	.009	.008
Imports from OPEC-Far East												
Total.....	.000	.003	.007	.000	.000	.000	.000	.000	.000	.000	.000	.000
Indonesia.....	.000	.003	.007	.000	.000	.000	.000	.000	.000	.000	.000	.000

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.13 OECD Imports from Iraq (Most Recent 12 Months)
(Million Barrels per Day)

	1998						1999					
	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August
Total.....	1.510	1.550	1.372	1.497	1.489	1.561	1.579	1.652	1.518	1.650	1.511	1.850
United States ^{1/}.....	.517	.636	.542	.486	.471	.681	.791	.824	.720	.691	.670	.660
Canada.....	.000	.062	.000	.034	.032	.000	.068	.000	.000	.000	.000	.000
OECD Europe ^{2/}.....	.904	.729	.726	.934	.971	.802	.668	.626	.652	.755	.789	.873
Main European Importers												
France.....	.254	.125	.104	.189	.265	.139	.148	.156	.178	.136	.196	.098
Germany ^{3/}.....	.014	.023	.018	.078	.085	.036	.001	.000	.001	.001	.031	.013
Italy.....	.187	.130	.123	.099	.082	.080	.109	.130	.098	.149	.190	.183
Spain.....	.097	.125	.165	.134	.129	.144	.132	.166	.063	.100	.131	.192
Netherlands.....	.136	.162	.112	.197	.143	.151	.121	.031	.131	.104	.082	.110
Smaller European Importers												
Austria.....	.046	.018	.066	.064	.017	.017	.032	.000	.026	.024	.022	.000
Belgium.....	.083	.041	.055	.055	.068	.001	.000	.032	.024	.027	.036	.127
Greece.....	.011	.000	.000	.034	.000	.036	.032	.033	.032	.064	.000	.032
Portugal.....	.000	.000	.030	.064	.000	.037	.033	.032	.004	.032	.065	.000
Switzerland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Turkey.....	.075	.104	.052	.021	.182	.162	.060	.046	.096	.116	.036	.118
Japan.....	.073	.103	.032	.000	.000	.036	.000	.135	.096	.152	.000	.296
Other OECD.....	.017	.021	.072	.044	.015	.042	.053	.067	.050	.052	.052	.021

^{1/} U.S. geographic coverage is the 50 States and District of Columbia.

^{2/} "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and Germany.

^{3/} Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.14 OECD Imports from Kuwait (Most Recent 12 Months)
 (Million Barrels per Day)

	1998						1999					
	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	August
Total.....	1.142	1.047	0.934	1.135	0.904	0.975	1.166	0.911	1.059	0.927	0.895	1.087
United States ^{1/}.....	.259	.241	.224	.228	.132	.205	.324	.286	.227	.259	.311	.348
Canada.....	.000	.000	.005	.000	.000	.000	.000	.000	.000	.000	.000	.000
OECD Europe ^{2/}.....	.391	.304	.188	.395	.279	.166	.253	.129	.236	.227	.099	.257
Main European Importers												
France.....	.065	.003	.000	.000	.019	.022	.054	.002	.027	.023	.000	.064
Germany ^{3/}.....	.022	.016	.005	.016	.010	.012	.020	.037	.006	.016	.022	.019
Italy.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Spain.....	.000	.000	.000	.003	.000	.000	.000	.000	.000	.000	.000	.000
Netherlands.....	.205	.199	.106	.301	.229	.103	.164	.073	.197	.156	.075	.162
European Net Exporters												
Norway.....	.000	.000	.000	.000	—	—	—	—	—	—	—	—
United Kingdom.....	.015	.006	.028	.000	.000	.000	.000	.000	.000	.008	.001	.005
Smaller European Importers												
Belgium.....	.031	.045	.029	.059	.015	.000	.000	.000	.000	.000	.000	.000
Denmark.....	.012	.022	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000
Finland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Greece.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.014	.000	.000
Sweden.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Switzerland.....	.000	.000	.000	.000	—	—	—	—	—	—	—	—
Turkey.....	.040	.013	.018	.015	.007	.030	.015	.016	.006	.010	.000	.008
Japan.....	.482	.501	.505	.510	.492	.602	.588	.494	.577	.435	.483	.468
Other OECD.....	.011	.002	.011	.002	.001	.002	.002	.002	.020	.005	.002	.014

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and Germany.

3/ Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Sources for Section 3 (International Oil Imports)

Oil Imports

United States: • Energy Information Administration (EIA), Petroleum Supply Annual 1998 and Petroleum Supply Monthly, October 1999. Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1998-1999.

4. Historical Oil Data Series

1970-1998

Table 4.1a World Crude Oil Production (Including Lease Condensate), 1970-1998
 (Thousands Barrels per Day)

	Algeria	Indo-nesia	Iran	Iraq	Kuwait ^{1/}	Libya	Nigeria	Qatar	Saudi Arabia ^{1/}	United Arab Emirates	Vene-zuela	Total OPEC
1970 Average.....	1,029	854	3,829	1,549	2,990	3,318	1,083	362	3,799	780	3,708	23,301
1971 Average.....	785	892	4,540	1,694	3,197	2,761	1,531	431	4,769	1,060	3,549	25,209
1972 Average.....	1,062	1,081	5,023	1,466	3,283	2,239	1,816	482	6,016	1,203	3,220	26,891
1973 Average.....	1,097	1,339	5,861	2,018	3,020	2,175	2,054	570	7,596	1,533	3,366	30,629
1974 Average.....	1,009	1,375	6,022	1,971	2,546	1,521	2,255	518	8,480	1,679	2,976	30,351
1975 Average.....	983	1,307	5,350	2,262	2,084	1,480	1,783	438	7,075	1,664	2,346	26,771
1976 Average.....	1,075	1,504	5,883	2,415	2,145	1,933	2,067	497	8,577	1,936	2,294	30,327
1977 Average.....	1,152	1,686	5,663	2,348	1,969	2,063	2,085	445	9,245	1,999	2,238	30,893
1978 Average.....	1,231	1,635	5,242	2,563	2,131	1,983	1,897	487	8,301	1,831	2,165	29,464
1979 Average.....	1,224	1,591	3,168	3,477	2,500	2,092	2,302	508	9,532	1,831	2,356	30,581
1980 Average.....	1,106	1,577	1,662	2,514	1,656	1,787	2,055	472	9,900	1,709	2,168	26,606
1981 Average.....	1,002	1,605	1,380	1,000	1,125	1,140	1,433	405	9,815	1,474	2,102	22,481
1982 Average.....	987	1,339	2,214	1,012	823	1,150	1,295	330	6,483	1,250	1,895	18,778
1983 Average.....	968	1,343	2,440	1,005	1,064	1,105	1,241	295	5,086	1,149	1,801	17,497
1984 Average.....	1,014	1,412	2,174	1,209	1,157	1,087	1,388	394	4,663	1,146	1,798	17,442
1985 Average.....	1,037	1,325	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	16,181
1986 Average.....	945	1,390	2,035	1,690	1,419	1,034	1,467	308	4,870	1,330	1,787	18,275
1987 Average.....	1,048	1,343	2,298	2,079	1,585	972	1,341	293	4,265	1,541	1,752	18,517
1988 Average.....	1,040	1,342	2,240	2,685	1,492	1,175	1,450	346	5,086	1,565	1,903	20,324
1989 Average.....	1,095	1,409	2,810	2,897	1,783	1,150	1,716	380	5,064	1,860	1,907	22,071
1990 Average.....	1,175	1,462	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	23,195
1991 Average.....	1,230	1,592	3,312	305	190	1,483	1,892	395	8,115	2,386	2,375	23,275
1992 Average.....	1,214	1,504	3,429	425	1,058	1,433	1,943	423	8,332	2,266	2,371	24,398
1993 Average.....	1,162	1,511	3,540	512	1,852	1,361	1,960	413	8,198	2,159	2,450	25,119
1994 Average.....	1,180	1,510	3,618	553	2,025	1,378	1,931	415	8,120	2,193	2,588	25,510
1995 Average.....	1,202	1,503	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	26,004
1996 Average.....	1,242	1,547	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,461
1997 Average	1,277	1,520	3,664	1,155	2,083	1,446	2,332	649	8,562	2,316	3,315	28,320
1998 Average P.....	1,246	1,518	3,634	2,150	2,085	1,378	2,153	696	8,389	2,345	3,167	28,762

^{1/} Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1970 through 1989 and beginning in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia.

P=Preliminary.

Notes: •OPEC=Organization of Petroleum Exporting Countries.

Sources: See end of Section 4.

Table 4.1b World Crude Oil Production (Including Lease Condensate), 1970-1998
 (Thousand Barrels per Day)

	Norway	United Kingdom	North Sea ^{1/}	Angola	Argen-tina	Austra-lia	Brazil	Canada	China	Colombia	Ecuador
1970 Average.....	0	2	0	112	393	178	167	1,263	600	219	4
1971 Average.....	6	2	6	93	423	309	174	1,348	780	214	4
1972 Average.....	33	2	35	140	433	327	167	1,532	900	196	78
1973 Average.....	32	2	36	162	420	369	169	1,798	1,090	184	209
1974 Average.....	35	2	38	169	414	388	176	1,551	1,315	168	177
1975 Average.....	189	12	202	165	395	409	177	1,430	1,490	157	161
1976 Average.....	279	245	525	108	398	426	167	1,314	1,670	146	188
1977 Average.....	280	768	1,055	194	431	431	161	1,321	1,874	138	183
1978 Average.....	356	1,082	1,446	131	453	432	160	1,316	2,082	131	202
1979 Average.....	403	1,568	1,976	147	473	441	166	1,500	2,122	124	214
1980 Average.....	528	1,622	2,151	150	491	380	182	1,435	2,114	126	204
1981 Average.....	501	1,811	2,322	130	496	394	213	1,285	2,012	125	211
1982 Average.....	520	2,065	2,617	122	491	370	260	1,271	2,045	141	211
1983 Average.....	614	2,291	2,965	177	491	416	339	1,356	2,120	152	237
1984 Average.....	697	2,480	3,250	208	478	492	475	1,438	2,296	168	258
1985 Average.....	788	2,530	3,417	231	460	575	564	1,471	2,505	176	281
1986 Average.....	870	2,539	3,547	282	434	520	572	1,474	2,620	305	293
1987 Average.....	1,022	2,406	3,584	360	428	547	566	1,535	2,690	385	174
1988 Average.....	1,158	2,232	3,540	452	449	538	554	1,616	2,730	378	302
1989 Average.....	1,554	1,802	3,515	455	460	490	596	1,560	2,757	403	279
1990 Average.....	1,704	1,820	3,667	475	483	575	631	1,553	2,774	440	285
1991 Average.....	1,890	1,797	3,811	500	485	545	630	1,548	2,835	419	299
1992 Average.....	2,229	1,825	4,182	526	553	535	626	1,605	2,845	433	321
1993 Average.....	2,350	1,915	4,403	509	594	503	643	1,679	2,890	456	344
1994 Average.....	2,521	2,375	5,058	536	650	536	671	1,746	2,939	450	365
1995 Average.....	2,768	2,489	5,400	646	715	562	695	1,805	2,990	585	392
1996 Average.....	3,104	2,568	5,822	709	756	570	795	1,837	3,131	623	396
1997 Average	3,143	2,518	5,830	714	834	588	841	1,922	3,200	652	388
1998 Average P....	3,017	2,616	5,804	735	847	544	971	1,981	3,198	759	377

1/ North Sea includes the United Kingdom Offshore, Norway, Denmark, Netherlands Offshore, and Germany Offshore.

P=Preliminary.

Sources: See end of Section 4.

Table 4.1c World Crude Oil Production (Including Lease Condensate), 1970-1998
 (Thousand Barrels per Day)

	Egypt	Gabon	India	Malaysia	Mexico	Oman	Russia	Former U.S.S.R.	Syria	United States	Other ¹ / World	
1970 Average.....	326	109	144	18	487	332	--	6,985	80	9,637	1,529	45,886
1971 Average.....	293	115	143	69	486	294	--	7,475	100	9,463	1,518	48,518
1972 Average.....	231	125	156	93	505	282	--	7,890	124	9,441	1,592	51,138
1973 Average.....	165	150	147	91	465	293	--	8,324	105	9,208	1,667	55,679
1974 Average.....	150	202	156	81	571	290	--	8,912	124	8,774	1,711	55,716
1975 Average.....	235	223	165	98	705	343	--	9,523	170	8,375	1,636	52,828
1976 Average.....	330	223	175	165	831	366	--	10,060	175	8,132	1,620	57,344
1977 Average.....	415	222	199	184	981	341	--	10,603	188	8,245	1,655	59,707
1978 Average.....	485	209	226	217	1,209	315	--	11,105	170	8,707	1,706	60,158
1979 Average.....	525	203	245	283	1,461	295	--	11,384	166	8,552	1,821	62,674
1980 Average.....	595	175	182	283	1,936	282	--	11,706	164	8,597	1,842	59,600
1981 Average.....	598	151	325	264	2,313	319	--	11,850	166	8,572	1,859	56,076
1982 Average.....	670	156	390	306	2,748	324	--	11,912	160	8,649	1,892	53,481
1983 Average.....	727	157	480	365	2,689	375	--	11,972	167	8,688	1,946	53,256
1984 Average.....	822	157	519	440	2,780	414	--	11,861	170	8,879	2,015	54,489
1985 Average.....	887	172	620	440	2,745	498	--	11,585	178	8,971	2,124	53,982
1986 Average.....	813	166	630	504	2,435	560	--	11,895	194	8,680	2,166	56,227
1987 Average.....	896	155	609	497	2,548	582	--	12,050	230	8,349	2,120	56,666
1988 Average.....	848	159	635	540	2,512	617	--	12,053	265	8,140	2,235	58,737
1989 Average.....	865	208	700	585	2,520	641	--	11,715	340	7,613	2,249	59,863
1990 Average.....	873	270	660	619	2,553	685	--	10,975	388	7,355	2,253	60,566
1991 Average.....	874	294	615	646	2,680	700	--	9,992	492	7,417	2,274	60,207
1992 Average.....	881	298	561	653	2,669	740	7,632	--	481	7,171	3,229	60,213
1993 Average.....	890	313	534	640	2,673	776	6,730	--	554	6,847	3,279	60,236
1994 Average.....	896	329	590	645	2,685	810	6,135	--	560	6,662	3,380	60,991
1995 Average.....	920	365	703	682	2,618	851	5,995	--	575	6,560	3,414	62,335
1996 Average.....	922	368	651	695	2,855	883	5,850	--	582	6,465	3,490	63,711
1997 Average	856	370	675	746	3,023	904	5,920	--	561	6,452	3,793	66,420
1998 Average P....	866	361	661	733	3,070	900	5,938	--	553	6,252	3,732	66,874

1/ Other is a calculated total derived from the difference between "World" and the sum of production in "Total OPEC" (Table 1.1a) and all other countries listed (Tables 1.1b and 1.1c). The total "North Sea" is not subtracted from the world total, though Norway and the United Kingdom have been subtracted.

-- = Not applicable. P=Preliminary.

Sources: See end of Section 4.

Table 4.2 OPEC Crude Oil Production (Excluding Condensate), 1980-1998
 (Thousand Barrels per Day)

	Algeria	Indo- nesia	Iran	Iraq	Kuwait ^{1/}	Libya	Nigeria	Qatar	Saudi Arabia ^{1/}	United Arab Emirates	Vene- zuela	Total OPEC
1980 Average...	1,006	1,497	1,662	2,514	1,656	1,787	2,045	472	9,900	1,704	2,147	26,390
1981 Average...	802	1,513	1,380	1,000	1,125	1,140	1,423	405	9,815	1,469	2,083	22,155
1982 Average...	712	1,247	2,214	1,012	823	1,150	1,285	330	6,483	1,215	1,878	18,349
1983 Average...	648	1,245	2,440	1,005	1,064	1,105	1,231	295	5,086	1,109	1,768	16,996
1984 Average...	694	1,279	2,174	1,209	1,157	1,087	1,368	394	4,663	1,091	1,689	16,805
1985 Average...	702	1,181	2,250	1,433	1,023	1,059	1,475	301	3,388	1,133	1,558	15,503
1986 Average...	600	1,257	2,035	1,690	1,419	1,034	1,447	308	4,870	1,270	1,645	17,575
1987 Average...	648	1,189	2,298	2,079	1,585	972	1,291	293	4,265	1,441	1,587	17,648
1988 Average...	640	1,177	2,240	2,685	1,492	1,175	1,400	346	5,086	1,465	1,715	19,421
1989 Average...	690	1,231	2,810	2,897	1,783	1,150	1,666	380	5,064	1,783	1,747	21,201
1990 Average...	765	1,281	3,088	2,040	1,175	1,375	1,755	406	6,410	2,066	2,100	22,461
1991 Average...	800	1,410	3,312	305	190	1,483	1,832	395	8,115	2,326	2,338	22,506
1992 Average...	772	1,326	3,429	425	1,058	1,433	1,820	423	8,332	2,206	2,334	23,558
1993 Average...	747	1,327	3,540	512	1,852	1,361	1,835	413	8,198	2,109	2,410	24,304
1994 Average...	750	1,334	3,583	548	2,025	1,378	1,821	380	8,120	2,113	2,542	24,594
1995 Average...	767	1,343	3,608	555	2,057	1,390	1,878	407	8,231	2,148	2,710	25,094
1996 Average...	812	1,367	3,651	574	2,062	1,401	1,885	475	8,218	2,198	2,898	25,541
1997 Average...	847	1,355	3,629	1,150	2,083	1,446	2,217	614	8,562	2,236	3,275	27,414
1998 Average P.	816	1,338	3,599	2,145	2,085	1,378	2,043	661	8,389	2,265	3,127	27,847

^{1/} Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1980 through July 1990 and beginning in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia.

P=Preliminary.

Note: OPEC=Organization of Petroleum Exporting Countries. See Appendix A for Countries in this group.

Sources: See end of Section 4.

Table 4.3 World Natural Gas Plant Liquids Production, 1970-1998
 (Thousand Barrels per Day)

	Algeria	Canada	Mexico	Saudi Arabia	Russia	Former USSR	United States ^{1/}	Persian Gulf ^{2/}	OAPEC ^{3/}	OPEC ^{3/}	World
1970 Average.....	3	200	58	50	--	120	1,660	119	137	205	2,383
1971 Average.....	4	234	59	50	--	135	1,693	138	147	243	2,508
1972 Average.....	4	293	61	55	--	155	1,744	155	159	275	2,676
1973 Average.....	9	314	75	90	--	170	1,738	191	196	324	2,785
1974 Average.....	12	314	80	130	--	190	1,688	231	219	347	2,789
1975 Average.....	20	309	80	140	--	205	1,633	246	252	372	2,790
1976 Average.....	24	289	95	185	--	220	1,603	291	313	442	2,865
1977 Average.....	19	290	105	215	--	235	1,618	335	366	482	2,982
1978 Average.....	25	281	115	250	--	255	1,567	410	447	566	3,078
1979 Average.....	30	331	150	303	--	270	1,584	458	535	637	3,285
1980 Average.....	36	331	193	369	--	285	1,573	534	618	732	3,444
1981 Average.....	49	330	241	433	--	300	1,609	599	691	825	3,625
1982 Average.....	58	318	255	430	--	315	1,550	612	721	842	3,626
1983 Average.....	56	309	265	330	--	330	1,559	552	655	780	3,635
1984 Average.....	105	336	257	355	--	340	1,630	604	761	869	3,869
1985 Average.....	120	337	271	375	--	350	1,609	645	808	892	3,938
1986 Average.....	120	328	352	385	--	440	1,551	700	860	969	4,150
1987 Average.....	140	367	338	418	--	430	1,595	721	900	1,006	4,279
1988 Average.....	120	381	370	499	--	450	1,625	808	979	1,077	4,481
1989 Average.....	130	410	384	503	--	425	1,546	851	1,041	1,188	4,502
1990 Average.....	130	426	428	620	--	425	1,559	930	1,107	1,281	4,632
1991 Average.....	140	431	457	680	--	420	1,659	931	1,113	1,299	4,827
1992 Average.....	140	460	454	713	230	--	1,697	1,003	1,185	1,364	4,974
1993 Average.....	145	506	459	704	220	--	1,736	1,040	1,238	1,435	5,180
1994 Average.....	140	529	461	698	200	--	1,727	1,071	1,267	1,465	5,292
1995 Average.....	145	581	447	701	180	--	1,762	1,106	1,301	1,506	5,485
1996 Average.....	150	596	423	697	185	--	1,830	1,082	1,295	1,501	5,580
1997 Average.....	160	636	388	712	195	--	1,817	1,158	1,390	1,614	5,750
1998 Average P....	155	651	424	711	230	--	1,759	1,161	1,395	1,608	5,783

^{1/} U.S. geographic coverage is the 50 States and the District of Columbia.

^{2/} See Appendix A for countries in this group.

^{3/} OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries.

See Appendix A for countries in these groups.

P=Preliminary.

Sources: See end of Section 4.

Table 4.4 World Oil Supply, 1970-1998
 (Thousand Barrels per Day)

	United States ^{1/}	Persian Gulf ^{2/}	OAPEC ^{3/}	OPEC ^{3/}	World
1970 Average.....	11,673	13,541	14,571	23,567	48,986
1971 Average.....	11,554	15,940	15,427	25,514	51,766
1972 Average.....	11,601	17,734	16,451	27,228	54,574
1973 Average.....	11,428	20,895	18,656	31,015	59,300
1974 Average.....	10,978	21,550	18,399	30,762	59,391
1975 Average.....	10,505	19,223	16,831	27,218	56,511
1976 Average.....	10,251	21,847	19,563	30,841	61,121
1977 Average.....	10,437	22,098	20,372	31,443	63,665
1978 Average.....	10,820	21,067	19,819	30,120	64,225
1979 Average.....	10,707	21,569	22,575	31,300	66,973
1980 Average.....	10,809	18,541	20,715	27,419	64,152
1981 Average.....	10,739	15,894	17,619	23,393	60,761
1982 Average.....	10,783	12,815	13,786	19,702	58,225
1983 Average.....	10,788	11,676	12,416	18,352	58,054
1984 Average.....	11,107	11,433	12,619	18,389	59,644
1985 Average.....	11,192	10,320	11,498	17,151	59,262
1986 Average.....	10,905	12,441	13,653	19,310	61,769
1987 Average.....	10,648	12,869	13,992	19,589	62,427
1988 Average.....	10,473	14,310	15,662	21,465	64,705
1989 Average.....	9,880	15,733	16,658	23,323	65,892
1990 Average.....	9,677	16,249	17,232	24,536	66,754
1991 Average.....	9,883	15,704	16,747	24,625	66,632
1992 Average.....	9,768	17,010	17,871	25,818	66,961
1993 Average.....	9,602	17,792	18,505	26,610	67,348
1994 Average.....	9,413	18,072	18,745	27,031	68,228
1995 Average.....	9,400	18,351	19,069	27,566	69,837
1996 Average.....	9,445	18,486	19,237	28,018	71,394
1997 Average	9,461	19,665	20,453	29,990	74,343
1998 Average P.....	9,278	20,532	21,246	30,426	74,939

^{1/} U.S. geographic coverage is the 50 States and the District of Columbia.

^{2/} See Appendix A for countries in this group.

^{3/} OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries.

See Appendix A for countries in these groups.

P=Preliminary.

Note: Oil Supply includes crude oil, natural gas plant liquids, other liquids, and refinery gain. See Explanatory Note 1 in Appendix B.

Sources: See end of Section 4.

Table 4.5 Oil Stocks in OECD Countries, End of Year
(Million Barrels)

		France	Italy	Germany ^{1/}	United Kingdom	OECD Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}	Total OECD
1973	December.....	201	152	181	156	1,070	1,008	140	303	67	2,588
1974	December.....	249	167	213	191	1,227	1,074	145	370	64	2,880
1975	December.....	225	143	187	165	1,154	1,133	174	375	67	2,903
1976	December.....	234	143	208	165	1,205	1,112	153	380	68	2,918
1977	December.....	239	161	225	148	1,268	1,312	167	409	68	3,224
1978	December.....	201	154	238	157	1,219	1,278	144	413	68	3,122
1979	December.....	226	163	272	169	1,353	1,341	150	460	75	3,379
1980	December.....	243	170	319	168	1,464	1,392	164	495	72	3,587
1981	December.....	214	167	297	143	1,337	1,484	161	482	67	3,531
1982	December.....	193	179	272	125	1,258	1,430	136	484	68	3,376
1983	December.....	153	149	249	118	1,142	1,454	121	470	68	3,255
1984	December.....	152	159	239	112	1,130	1,556	128	479	69	3,362
1985	December.....	139	157	233	123	1,092	1,519	113	494	66	3,284
1986	December.....	127	155	252	124	1,133	1,593	111	509	72	3,418
1987	December.....	127	169	259	121	1,130	1,607	126	540	71	3,474
1988	December.....	140	155	266	112	1,118	1,597	116	538	71	3,440
1989	December.....	138	164	271	118	1,133	1,581	114	577	71	3,476
1990	December.....	140	172	265	112	1,163	1,621	121	590	73	3,568
1991	December.....	153	160	288	119	1,181	1,617	119	606	65	3,588
1992	December.....	146	174	310	113	1,219	1,592	107	603	67	3,588
1993	December.....	158	163	309	118	1,221	1,647	105	618	69	3,661
1994	December.....	158	164	312	115	1,240	1,653	119	645	69	3,726
1995	December.....	159	162	301	107	1,228	1,563	109	630	71	3,601
1996	December.....	158	152	300	108	1,256	1,507	103	651	74	3,591
1997	December	164	147	298	105	1,256	1,560	115	685	74	3,689
1998	December P...	161	153	321	108	1,304	1,647	118	649	66	3,784

1/ Data through December 1990 are for the former West Germany. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ U.S. geographic coverage is the 50 States and the District of Columbia. In the United States in January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys affecting subsequent stocks reported. Using the new basis, the end-of-year U.S. stocks, in million barrels, would have been 1,121 in 1974, 1,425 in 1980, and 1,461 in 1982.

4/ "Other" consists of Australia, New Zealand, and the U.S. Territories.

P=Preliminary.

Note: Oil Stocks - See Explanatory Note 2 in Appendix B.

Sources: See end of Section 4.

Table 4.6 World Oil Demand, 1970-1998
(Thousand Barrels per Day)

	France	Italy	Germany ^{1/}	United Kingdom	OECD Europe ^{2/}	United States ^{3/}	Canada	Japan	Other ^{4/}	Excluding East Germany	East Germany	OECD Including East Germany	World Total
1970 Average...	1,937	1,710	2,607	2,096	12,404	14,697	1,516	3,817	836	33,270	223	33,493	46,808
1971 Average...	2,115	1,838	2,702	2,141	13,005	15,213	1,565	4,142	831	34,755	238	34,993	49,416
1972 Average...	2,322	1,947	2,859	2,284	13,934	16,367	1,664	4,363	948	37,275	270	37,545	53,094
1973 Average...	2,601	2,068	3,055	2,341	14,925	17,308	1,729	4,949	988	39,900	282	40,182	57,237
1974 Average...	2,447	2,004	2,748	2,210	13,988	16,653	1,779	4,864	1,095	38,379	307	38,686	56,677
1975 Average...	2,252	1,855	2,650	1,911	13,217	16,322	1,779	4,621	1,041	36,980	307	37,287	56,198
1976 Average...	2,420	1,971	2,877	1,892	14,124	17,461	1,818	4,837	1,119	39,358	329	39,687	59,673
1977 Average...	2,294	1,897	2,865	1,905	13,916	18,431	1,850	4,880	1,160	40,237	347	40,584	61,826
1978 Average...	2,408	1,952	2,927	1,938	14,290	18,847	1,902	4,945	1,204	41,187	363	41,550	64,158
1979 Average...	2,463	2,039	3,003	1,971	14,667	18,513	1,971	5,050	1,178	41,379	369	41,748	65,220
1980 Average...	2,256	1,934	2,707	1,725	13,634	17,056	1,873	4,960	1,072	38,595	375	38,970	63,067
1981 Average...	2,023	1,874	2,449	1,590	12,515	16,058	1,768	4,848	1,080	36,269	355	36,624	60,903
1982 Average...	1,880	1,781	2,372	1,590	12,053	15,296	1,578	4,582	1,008	34,517	371	34,888	59,503
1983 Average...	1,835	1,750	2,324	1,531	11,765	15,231	1,448	4,395	953	33,793	336	34,129	58,739
1984 Average...	1,754	1,646	2,322	1,849	11,736	15,726	1,472	4,576	990	34,500	340	34,840	59,831
1985 Average...	1,775	1,717	2,338	1,634	11,681	15,726	1,504	4,384	976	34,271	362	34,633	60,091
1986 Average...	1,772	1,738	2,498	1,649	12,102	16,281	1,506	4,439	951	35,279	362	35,641	61,759
1987 Average...	1,789	1,855	2,424	1,603	12,255	16,665	1,548	4,484	959	35,911	342	36,253	62,999
1988 Average...	1,797	1,836	2,422	1,697	12,427	17,283	1,693	4,752	939	37,093	322	37,415	64,819
1989 Average...	1,857	1,930	2,280	1,738	12,531	17,325	1,733	4,983	998	37,570	300	37,871	65,917
1990 Average...	1,818	1,872	2,382	1,752	12,629	16,988	1,690	5,140	1,027	37,475	282	37,758	65,977
1991 Average...	1,935	1,863	2,828	1,801	13,391	16,714	1,622	5,284	1,056	--	--	38,067	66,567
1992 Average...	1,926	1,937	2,843	1,803	13,605	17,033	1,643	5,446	1,041	--	--	38,768	66,736
1993 Average...	1,875	1,852	2,900	1,815	13,523	17,237	1,688	5,401	1,118	--	--	38,967	66,988
1994 Average...	1,833	1,841	2,879	1,837	13,597	17,718	1,727	5,674	1,174	--	--	39,890	68,302
1995 Average...	1,896	2,048	2,875	1,845	14,120	17,725	1,755	5,711	1,243	--	--	40,553	69,888
1996 Average...	1,935	2,058	2,911	1,845	14,269	18,309	1,797	5,867	1,192	--	--	41,433	71,322
1997 Average...	1,955	2,045	2,903	1,799	14,433	18,620	1,857	5,711	1,228	--	--	41,850	73,008
1998 Average P.	2,032	2,072	2,916	1,784	14,720	18,917	1,873	5,512	1,244	--	--	42,266	73,780

^{1/} Data through 1990 are for the former West Germany. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

^{2/} "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

^{3/} U.S. geographic coverage is the 50 States and the District of Columbia.

^{4/} "Other" consists of Australia, New Zealand, and the U.S. Territories.

P=Preliminary. --=Not Applicable.

Note: The term Demand is used interchangeably with Consumption and Petroleum Products Supplied. See Appendix C for definition.

Sources: See end of Section 4.

Table 4.7 OECD Total Net Imports, 1988-1998
(Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Average											
Total.....	18.703	20.077	20.443	20.143	20.508	20.937	20.834	20.422	21.149	21.755	22.401
United States ^{1/}	6.587	7.202	7.161	6.626	6.938	7.618	8.054	7.886	8.498	9.158	9.764
Canada.....	-.585	-.462	-.429	-.486	-.553	-.594	-.632	-.763	-.812	-.829	-.917
OECD Europe ^{2/}	7.770	7.988	8.201	8.452	8.325	7.990	7.216	7.092	7.198	7.193	7.739
Main European Importers											
France.....	1.718	1.709	1.750	1.851	1.766	1.741	1.596	1.702	1.716	1.747	1.855
Germany ^{3/}	2.278	2.112	2.202	2.642	2.714	2.697	2.704	2.673	2.766	2.778	2.860
Italy.....	1.590	1.716	1.788	1.750	1.819	1.728	1.760	1.802	1.773	1.775	1.809
Netherlands.....	.644	.635	.668	.677	.699	.674	.706	.686	.748	.758	.765
Spain.....	.869	.949	.950	.937	.985	1.054	1.105	1.188	1.169	1.260	1.350
European Net Exporters											
Norway.....	-1.036	-1.420	-1.543	-1.825	-2.102	-2.255	-2.587	-2.795	-3.150	-3.176	-3.043
United Kingdom....	-.760	-.200	-.214	-.170	-.233	-.368	-.861	-.980	-.850	-.980	-.1030
Smaller European Importers											
Austria.....	.183	.190	.201	.210	.207	.203	.208	.194	.213	.221	.234
Belgium.....	.451	.454	.442	.498	.510	.496	.510	.488	.564	.581	.605
Denmark.....	.107	.078	.063	.046	.031	.022	.025	.038	.027	-.007	-.004
Ireland.....	.076	.079	.095	.094	.096	.101	.109	.115	.123	.133	.147
Finland.....	.200	.220	.208	.200	.185	.180	.231	.143	.178	.184	.208
Greece.....	.242	.252	.273	.293	.322	.323	.289	.339	.346	.356	.382
Iceland.....	.012	.011	.011	.012	.011	.014	.015	.015	.015	.016	.017
Luxembourg.....	.028	.031	.034	.039	.040	.039	.040	.036	.039	.040	.043
Portugal.....	.198	.246	.250	.256	.276	.269	.266	.287	.271	.292	.321
Sweden.....	.313	.290	.324	.308	.316	.330	.357	.351	.400	.365	.378
Switzerland.....	.258	.254	.273	.272	.276	.249	.261	.247	.258	.268	.277
Turkey.....	.397	.384	.425	.361	.407	.494	.484	.563	.594	.583	.565
Japan.....	4.680	5.035	5.239	5.237	5.413	5.415	5.711	5.662	5.736	5.762	5.352
Other OECD.....	.250	.313	.270	.314	.384	.507	.483	.546	.529	.471	.463

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day.

•Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.8 OECD Imports from OPEC, 1988-1998
(Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
	Average										
Total.....	13.049	14.521	15.576	15.360	15.567	16.018	15.765	15.469	15.630	16.540	17.048
United States ^{1/}	3.439	3.986	4.172	3.918	3.888	4.103	4.036	3.979	4.194	4.542	4.881
Canada.....	.161	.205	.199	.210	.210	.268	.285	.257	.261	.312	.297
OECD Europe ^{2/}	5.842	6.188	6.633	6.728	6.758	6.794	6.385	6.154	6.053	6.260	6.693
Main European Importers											
France.....	.737	.875	1.101	1.021	.932	1.006	.956	.911	.897	.899	1.029
Germany ^{3/}.....	.761	.739	.771	.859	.957	.948	.838	.711	.660	.645	.656
Italy.....	1.191	1.260	1.375	1.393	1.343	1.222	1.117	1.203	1.244	1.353	1.421
Netherlands.....	.850	.892	.850	.900	.914	.982	.906	.791	.779	.774	.849
Spain.....	.604	.686	.652	.700	.632	.582	.668	.781	.775	.789	.867
European Net Exporters											
Norway.....	.002	.003	.007	.014	.004	.005	.003	.003	.001	.003	.000
United Kingdom....	.322	.342	.406	.377	.390	.439	.306	.254	.234	.199	.213
Smaller European Importers											
Austria.....	.082	.086	.097	.108	.115	.128	.119	.057	.023	.130	.122
Belgium.....	.302	.353	.313	.362	.359	.359	.284	.276	.284	.292	.341
Denmark.....	.067	.069	.044	.006	.001	.006	.008	.022	.027	.031	.033
Ireland.....	-	-	.000	.000	.000	.000	.000	.000	.000	.000	-
Finland.....	.011	.013	.013	.029	.033	.007	.004	.004	.001	.006	.004
Greece.....	.233	.244	.340	.298	.346	.303	.266	.263	.280	.317	.352
Portugal.....	.118	.156	.166	.139	.152	.166	.227	.209	.177	.188	.184
Sweden.....	.074	.064	.073	.105	.116	.123	.126	.109	.091	.096	.100
Switzerland.....	.051	.021	.036	.052	.051	.063	.082	.083	.098	.096	.102
Turkey.....	.439	.384	.388	.365	.412	.452	.475	.477	.483	.442	.418
Japan.....	3.309	3.788	4.062	4.026	4.198	4.245	4.495	4.467	4.470	4.699	4.467
Other OECD.....	.298	.355	.510	.478	.512	.609	.563	.612	.653	.727	.710

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.9 OECD Imports from Persian Gulf, 1988-1998
 (Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Average											
Imports from Persian Gulf											
Total.....	7.941	9.121	9.667	9.249	9.456	10.029	9.609	9.310	9.215	9.952	10.551
United States ¹ /...	1.526	1.857	1.961	1.835	1.774	1.775	1.722	1.563	1.594	1.747	2.131
Canada.....	.056	.069	.081	.084	.092	.105	.119	.070	.111	.120	.098
OECD Europe ² /....	3.428	3.754	3.908	3.660	3.666	4.048	3.506	3.365	3.171	3.469	3.953
Main European Importers											
France.....	.484	.647	.864	.708	.640	.757	.651	.647	.573	.617	.730
Germany ³ /.....	.197	.216	.217	.227	.215	.250	.217	.172	.145	.157	.163
Italy.....	.643	.619	.626	.595	.573	.548	.430	.494	.502	.583	.658
Netherlands.....	.587	.663	.647	.609	.650	.744	.662	.563	.566	.584	.676
Spain.....	.306	.352	.291	.281	.231	.287	.275	.324	.304	.359	.419
European Net Exporters											
Norway.....	-	-	.000	.011	.000	.000	.000	.000	.000	.000	.000
United Kingdom...	.212	.240	.250	.222	.220	.303	.174	.135	.102	.094	.108
Smaller European Importers											
Austria.....	.025	.022	.016	.021	.031	.036	.038	.035	.004	.045	.049
Belgium.....	.224	.277	.250	.279	.292	.291	.232	.252	.263	.259	.307
Denmark.....	.063	.067	.043	.004	.000	.002	.000	.000	.000	.002	.007
Finland.....	.011	.012	.011	.021	.023	.002	.002	.002	.000	.000	.001
Greece.....	.146	.181	.268	.219	.291	.253	.214	.223	.235	.282	.322
Portugal.....	.066	.085	.073	.067	.074	.050	.117	.107	.083	.106	.136
Sweden.....	.045	.043	.039	.064	.068	.088	.076	.068	.067	.073	.071
Switzerland.....	.007	.007	.007	.007	.007	.008	.012	.007	.006	.008	.009
Turkey.....	.411	.323	.307	.324	.349	.429	.405	.336	.320	.301	.296
Japan.....	2.691	3.173	3.394	3.370	3.586	3.721	3.946	3.979	4.025	4.304	4.132
Other OECD.....	.241	.267	.322	.300	.338	.381	.316	.334	.313	.311	.237

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •"Persian Gulf" consists of Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day.

•Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.10 United States--Net Oil Imports, 1988-1998
 (Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Average											
Total Net Imports..	6.587	7.202	7.161	6.626	6.938	7.618	8.054	7.886	8.498	9.158	9.764
Imports from OPEC ^{1/}	3.439	3.986	4.172	3.918	3.888	4.103	4.036	3.979	4.194	4.542	4.881
Imports from Persian Gulf ^{2/}											
Total.....	1.526	1.857	1.961	1.835	1.774	1.775	1.722	1.563	1.594	1.747	2.131
Bahrain.....	.000	-.001	-.001	-.001	-.002	-.002	-.002	-.003	-.002	-.002	-.001
Iran.....	.000	.000	.000	.032	.000	.000	.000	.000	.000	.000	.000
Iraq.....	.343	.449	.518	.000	.000	.000	.000	.000	.001	.089	.336
Kuwait.....	.092	.157	.086	.006	.051	.353	.312	.218	.236	.253	.301
U.A.E.....	.028	.027	.016	.001	.004	.009	.011	.004	-.003	-.003	.000
Qatar.....	.000	.002	.004	.000	.001	.001	.000	.000	.000	.004	.004
Saudi Arabia.....	1.063	1.224	1.339	1.797	1.720	1.414	1.402	1.344	1.363	1.406	1.491
Imports from OPEC-Africa											
Total.....	.918	1.084	1.080	.956	.876	.956	.880	.859	.872	.979	.983
Algeria.....	.300	.269	.280	.253	.196	.220	.243	.234	.256	.285	.290
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Nigeria.....	.618	.815	.800	.703	.680	.736	.637	.625	.616	.694	.693
Imports from OPEC-South America											
Total.....	.790	.861	1.016	1.020	1.161	1.295	1.322	1.468	1.667	1.758	1.701
Venezuela.....	.790	.861	1.016	1.020	1.161	1.295	1.322	1.468	1.667	1.758	1.701
Imports from OPEC-Far East											
Total.....	.205	.182	.113	.106	.075	.074	.109	.087	.058	.057	.065
Indonesia.....	.205	.182	.113	.106	.075	.074	.109	.087	.058	.057	.065

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •U.S. geographic coverage is the 50 States and District of Columbia. •Negative numbers represent net exports. •A dash (-) indicates no trade.

•Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.11 Japan--Net Oil Imports, 1988-1998
 (Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Average											
Total Net Imports..	4.680	5.035	5.239	5.237	5.413	5.415	5.711	5.662	5.736	5.762	5.352
Imports from OPEC ^{1/}	3.309	3.788	4.062	4.026	4.198	4.245	4.495	4.467	4.470	4.699	4.467
Imports from Persian Gulf ^{2/}											
Total.....	2.691	3.173	3.394	3.370	3.586	3.721	3.946	3.979	4.025	4.304	4.132
Bahrain.....	.036	.042	.037	.037	.029	.025	.028	.029	.033	.023	.016
Iran.....	.187	.291	.385	.383	.362	.384	.459	.399	.451	.461	.473
Iraq.....	.173	.219	.146	.000	.000	.000	.000	.000	.000	.015	.017
Kuwait.....	.341	.458	.291	.014	.220	.368	.430	.501	.500	.557	.507
U.A.E.....	.822	.929	1.032	1.285	1.256	1.287	1.398	1.420	1.396	1.441	1.402
Qatar.....	.203	.250	.263	.285	.300	.330	.328	.335	.335	.364	.450
Saudi Arabia.....	.930	.984	1.240	1.367	1.420	1.327	1.303	1.296	1.310	1.441	1.268
Imports from OPEC-Africa											
Total.....	.044	.015	.011	.011	.007	.008	.017	.026	.032	.036	.025
Algeria.....	.044	.015	.010	.010	.007	.008	.012	.011	.012	.014	.012
Nigeria.....	-	-	.001	.001	.000	.000	.005	.016	.020	.023	.013
Imports from OPEC-South America											
Total.....	.011	.011	.011	.010	.010	.009	.009	.002	.003	.003	.000
Venezuela.....	.011	.011	.011	.010	.010	.009	.009	.002	.003	.003	.000
Imports from OPEC-Far East											
Total.....	.599	.631	.682	.673	.624	.533	.551	.488	.442	.380	.326
Indonesia.....	.599	.631	.682	.673	.624	.533	.551	.488	.442	.380	.326

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include Crude Oil, Natural Gas Liquids, and Refined Products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.12 OECD Europe--Net Oil Imports, 1988-1998
 (Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Average											
Total Net Imports..	7.770	7.988	8.201	8.452	8.325	7.990	7.216	7.092	7.198	7.193	7.739
Imports from OPEC ^{1/}	5.842	6.188	6.633	6.728	6.758	6.794	6.385	6.154	6.053	6.260	6.693
Imports from Persian Gulf ^{2/}											
Total.....	3.428	3.754	3.908	3.660	3.666	4.048	3.506	3.365	3.171	3.469	3.953
Bahrain.....	.009	.005	.020	.002	.003	.004	.003	.000	.001	.001	.004
Iran.....	.850	1.076	1.190	1.132	1.113	1.253	1.074	1.149	1.059	.942	1.021
Iraq.....	.959	.897	.591	.000	.000	.001	.000	.000	.006	.336	.724
Kuwait.....	.474	.452	.346	.019	.142	.461	.302	.269	.288	.249	.275
U.A.E.....	.134	.214	.446	.281	.199	.092	.067	.011	.004	.009	.019
Qatar.....	.021	.024	.026	.009	.006	.000	.000	.002	.002	.000	.000
Saudi Arabia.....	.981	1.086	1.290	2.217	2.203	2.237	2.060	1.933	1.811	1.932	1.910
Imports from OPEC-Africa											
Total.....	2.198	2.224	2.509	2.818	2.818	2.491	2.644	2.500	2.644	2.569	2.505
Algeria.....	.646	.648	.683	.757	.772	.693	.690	.724	.746	.681	.708
Libya.....	1.071	1.044	1.267	1.332	1.361	1.193	1.233	1.201	1.204	1.268	1.297
Nigeria.....	.481	.532	.559	.729	.686	.605	.721	.575	.694	.620	.501
Imports from OPEC-South America											
Total.....	.220	.212	.227	.249	.268	.240	.219	.273	.206	.206	.215
Venezuela.....	.220	.212	.227	.249	.268	.240	.219	.273	.206	.206	.215
Imports from OPEC-Far East											
Total.....	.005	.004	.008	.002	.009	.019	.019	.017	.033	.017	.024
Indonesia.....	.005	.004	.008	.002	.009	.019	.019	.017	.033	.017	.024

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •"OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.13 France--Net Oil Imports, 1988-1998
 (Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Average											
Total Net Imports..	1.718	1.709	1.750	1.851	1.766	1.741	1.596	1.702	1.716	1.747	1.855
Imports from OPEC ^{1/}	.737	.875	1.101	1.021	.932	1.006	.956	.911	.897	.899	1.029
Imports from Persian Gulf ^{2/}											
Total.....	.484	.647	.864	.708	.640	.757	.651	.647	.573	.617	.730
Bahrain.....	.007	.002	.011	.000	.001	.002	.000	.000	.001	.000	.002
Iran.....	.012	.158	.182	.171	.151	.243	.156	.208	.172	.127	.157
Iraq.....	.143	.128	.062	.000	.000	.000	.000	.000	.000	.078	.171
Kuwait.....	.017	.021	.015	.011	.029	.032	.016	.022	.017	.017	.019
U.A.E.....	.017	.040	.233	.064	.033	.025	.003	.002	.001	.000	.012
Qatar.....	.017	.009	.022	.003	.002	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	.271	.288	.339	.459	.424	.454	.477	.416	.381	.394	.369
Imports from OPEC-Africa											
Total.....	.249	.218	.233	.296	.281	.242	.301	.262	.323	.282	.301
Algeria.....	.079	.089	.092	.107	.105	.066	.089	.103	.105	.131	.115
Libya.....	.090	.065	.079	.104	.087	.063	.059	.043	.051	.060	.061
Nigeria.....	.079	.064	.062	.084	.090	.112	.153	.115	.168	.091	.126
Imports from OPEC-South America											
Total.....	.011	.012	.015	.017	.011	.010	.003	.002	.001	.000	.000
Venezuela.....	.011	.012	.015	.017	.011	.010	.003	.002	.001	.000	.000
Imports from OPEC-Far East											
Total.....	-	.000	.000	.001	.001	.000	.000	.000	.000	.000	.000
Indonesia.....	-	.000	.000	.001	.001	.000	.000	.000	.000	.000	.000

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include Crude Oil, Natural Gas Liquids, and Refined Products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.14 Germany--Net Oil Imports, 1988-1998
 (Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Average											
Total Net Imports..	2.278	2.112	2.202	2.642	2.714	2.697	2.704	2.673	2.766	2.778	2.860
Imports from OPEC ^{1/}	.761	.739	.771	.859	.957	.948	.838	.711	.660	.645	.656
Imports from Persian Gulf ^{2/}											
Total.....	.197	.216	.217	.227	.215	.250	.217	.172	.145	.157	.163
Bahrain.....	-	-	-	-	-	.000	.001	.000	.000	.000	.000
Iran.....	.051	.041	.055	.053	.021	.053	.040	.031	.018	.023	.020
Iraq.....	.032	.009	.004	.000	.000	.000	.000	.000	.000	.001	.020
Kuwait.....	.013	.022	.013	.000	.009	.022	.026	.015	.016	.012	.016
U.A.E.....	.006	.023	.016	.012	.002	.002	.001	.000	.000	.001	.000
Qatar.....	.001	.002	.003	.002	.001	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	.095	.119	.125	.161	.182	.173	.149	.125	.111	.120	.106
Imports from OPEC-Africa											
Total.....	.472	.436	.465	.524	.614	.594	.543	.461	.462	.442	.447
Algeria.....	.141	.106	.098	.126	.183	.195	.161	.135	.125	.095	.127
Libya.....	.237	.235	.244	.262	.252	.244	.244	.234	.258	.246	.277
Nigeria.....	.095	.095	.123	.136	.179	.154	.139	.093	.079	.101	.043
Imports from OPEC-South America											
Total.....	.091	.086	.088	.107	.128	.105	.079	.078	.053	.046	.046
Venezuela.....	.091	.086	.088	.107	.128	.105	.079	.078	.053	.046	.046
Imports from OPEC-Far East											
Total.....	-	-	.002	.000	.000	.000	.000	.000	.000	.000	.000
Indonesia.....	-	-	.002	.000	.000	.000	.000	.000	.000	.000	.000

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •Data through 1990 are for the former West Germany. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.15 Italy--Net Oil Imports, 1988-1998
 (Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Average											
Total Net Imports..	1.590	1.716	1.788	1.750	1.819	1.728	1.760	1.802	1.773	1.775	1.809
Imports from OPEC ^{1/}	1.191	1.260	1.375	1.393	1.343	1.222	1.117	1.203	1.244	1.353	1.421
Imports from Persian Gulf ^{2/}											
Total.....	.643	.619	.626	.595	.573	.548	.430	.494	.502	.583	.658
Bahrain.....	-	.001	.000	.001	.001	.000	.000	.000	.001	.000	.002
Iran.....	.093	.124	.192	.231	.239	.221	.143	.233	.263	.258	.273
Iraq.....	.198	.138	.079	.000	.000	.000	.000	.000	.000	.033	.108
Kuwait.....	.118	.093	.063	.000	.007	.012	.001	.000	.000	.000	.000
U.A.E.....	.060	.085	.075	.044	.013	.002	.000	.000	.000	.000	.000
Qatar.....	.002	.008	.000	.004	.001	.000	.000	.002	.002	.000	.000
Saudi Arabia.....	.171	.171	.216	.315	.312	.313	.286	.260	.236	.291	.274
Imports from OPEC-Africa											
Total.....	.516	.626	.740	.793	.757	.653	.660	.679	.714	.745	.723
Algeria.....	.108	.150	.155	.155	.140	.096	.099	.100	.110	.086	.083
Libya.....	.389	.430	.556	.581	.584	.542	.543	.562	.580	.609	.601
Nigeria.....	.019	.045	.029	.057	.034	.015	.018	.017	.025	.050	.039
Imports from OPEC-South America											
Total.....	.029	.014	.007	.004	.005	.002	.007	.014	.008	.012	.020
Venezuela.....	.029	.014	.007	.004	.005	.002	.007	.014	.008	.012	.020
Imports from OPEC-Far East											
Total.....	.002	.002	.003	.001	.009	.019	.019	.015	.021	.014	.023
Indonesia.....	.002	.002	.003	.001	.009	.019	.019	.015	.021	.014	.023

1/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

2/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include Crude Oil, Natural Gas Liquids, and Refined Products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.16 OECD Imports from Iraq, 1988-1998
 (Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
	Average										
Total.....	1.489	1.581	1.276	0.000	0.000	0.001	0.000	0.000	0.007	0.458	1.109
United States ^{1/}....	.343	.449	.518	.000	.000	.000	.000	.000	.001	.089	.336
Canada.....	.001	.013	.011	.000	.000	.000	.000	.000	.000	.014	.014
OECD Europe ^{2/}....	.959	.897	.591	.000	.000	.001	.000	.000	.006	.336	.724
Main European Importers											
France.....	.143	.128	.062	.000	.000	.000	.000	.000	.000	.078	.171
Germany ^{3/}.....	.032	.009	.004	.000	.000	.000	.000	.000	.000	.001	.020
Italy.....	.198	.138	.079	.000	.000	.000	.000	.000	.000	.033	.108
Netherlands.....	.039	.101	.117	.000	.000	.000	.000	.000	.000	.024	.113
Spain.....	.092	.109	.063	.000	.000	.000	.000	.000	.002	.074	.130
European Net Exporters											
United Kingdom....	.070	.034	.027	.000	.000	.000	.000	.000	.000	.000	-
Smaller European Importers											
Austria.....	.007	.000	.000	.000	.000	.001	.000	.000	.000	.017	.031
Belgium.....	.037	.047	.029	.000	.000	.000	.000	.000	.000	.010	.047
Denmark.....	-	-	.000	.000	.000	.000	.000	.000	.000	.000	-
Greece.....	.059	.052	.044	.000	.000	.000	.000	.000	.000	.013	.013
Portugal.....	.029	.024	.019	.000	.000	.000	.000	.000	.000	.011	.029
Sweden.....	.003	.005	.000	.000	.000	.000	.000	.000	.000	.000	-
Switzerland.....	-	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000
Turkey.....	.250	.250	.146	.000	.000	.000	.000	.000	.000	.074	.063
Japan.....	.173	.219	.146	.000	.000	.000	.000	.000	.000	.015	.017
Other OECD.....	.013	.003	.011	.000	.000	.000	.000	.000	.000	.005	.017

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.17 OECD Imports from Kuwait, 1988-1998
(Million Barrels per Day)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
	Average										
Total.....	0.936	1.084	0.740	0.039	0.414	1.191	1.081	0.997	1.034	1.065	1.089
United States ^{1/}....	.092	.157	.086	.006	.051	.353	.312	.218	.236	.253	.301
Canada.....	-	-	.004	-	-	.000	.027	.000	.000	.000	.000
OECD Europe ^{2/}....	.474	.452	.346	.019	.142	.461	.302	.269	.288	.249	.275
Main European Importers											
France.....	.017	.021	.015	.011	.029	.032	.016	.022	.017	.017	.019
Germany ^{3/}.....	.013	.022	.013	.000	.009	.022	.026	.015	.016	.012	.016
Italy.....	.118	.093	.063	.000	.007	.012	.001	.000	.000	.000	.000
Netherlands.....	.189	.194	.151	.002	.052	.254	.179	.176	.193	.168	.176
Spain.....	.030	.015	.010	.003	.000	.015	.000	.000	.000	.000	.000
European Net Exporters											
Norway.....	-	-	-	-	-	.000	.000	.000	.000	.000	.000
United Kingdom....	.006	.006	.045	.002	.027	.049	.058	.039	.032	.031	.025
Smaller European Importers											
Austria.....	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	-
Belgium.....	-	-	.000	.001	.006	.056	.005	.004	.015	.004	.014
Denmark.....	.060	.066	.034	.000	.000	.000	.000	.000	.000	.002	.007
Finland.....	-	-	-	.000	-	-	-	-	-	-	.001
Greece.....	.015	.009	.000	.000	.002	.005	.001	.000	.000	.000	.000
Portugal.....	.003	.003	.002	.000	.000	.000	.000	.000	.000	.000	-
Sweden.....	-	.001	.001	.000	.000	.002	.000	.000	.000	.000	.000
Switzerland.....	-	-	-	.000	.000	.000	.000	.000	.000	.000	.000
Turkey.....	.019	.019	.011	.000	.010	.016	.016	.014	.015	.014	.016
Japan.....	.341	.458	.291	.014	.220	.368	.430	.501	.500	.557	.507
Other OECD.....	.029	.017	.013	.000	.000	.009	.011	.009	.010	.006	.006

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Sources for Section 4 (Historical Oil Data)

Crude Oil Production, Natural Gas Liquids Production, Other Liquids, and Refinery Gain

United States: • Energy Information Administration (EIA), Petroleum Supply Annual 1998; • Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, various issues.

Other Countries: • EIA, International Energy Annual, various issues. • EIA, International Petroleum Annual, 1978. • United Nations, Yearbook of World Energy Statistics, 1979. Refinery Gains: National Petroleum Council, U.S. Petroleum Refinery Study, November 1986.

Oil Stocks

United States: EIA, Petroleum Supply Annual 1998.

Other OECD Countries: • 1973-1982: Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • 1983-1998: OECD, Monthly Oil Statistics in the EIA, International Energy Database.

Oil Demand

United States: EIA, Petroleum Supply Annual 1998.

Other OECD Countries: • 1973-1981: OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Annual Oil Statistics data base, 1970-1979. • 1982-1998: OECD, Monthly Oil Statistics in the EIA International Energy Database.

Oil Imports

United States: Energy Information Administration (EIA), Petroleum Supply Annual 1998.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD Monthly Oil Statistics database, 1991-1999.

Appendix A

Organizational and Geographical Definitions

Appendix A. Organizational and Geographical Definitions

International Energy Agency (IEA) countries are: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Japan, Luxembourg, Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom, and United States.

Organization for Economic Cooperation and Development (OECD) countries are: Australia, Austria, Belgium, Canada, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Japan, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, South Korea, Spain, Sweden, Switzerland, Turkey, United Kingdom, and United States. Total OECD includes the United States Territories (Guam, Puerto Rico, and the U.S. Virgin Islands). Total OECD excludes data for Czech Republic, Hungary, Mexico, Poland, and South Korea which are not yet available.

OECD Europe countries are: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Spain, Sweden, Switzerland, Turkey, and United Kingdom. OECD Europe excludes data for Czech Republic, Hungary, and Poland which are not yet available.

Organization of Petroleum Exporting Countries (OPEC) members are: Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela. As of December 31, 1992, Ecuador withdrew its membership in OPEC, and as of December 31, 1994, Gabon withdrew its membership. For consistency, Ecuador and Gabon are excluded in the historical series of OPEC totals.

Arab members of OPEC are: Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia and the United Arab Emirates.

Organization of Arab Petroleum Exporting Countries (OAPEC) are: Algeria, Bahrain, Egypt, Iraq, Kuwait, Libya, Neutral Zone, Qatar, Saudi Arabia, Syria, Tunisia, and the United Arab Emirates. In April 1979 Egypt was suspended from OAPEC membership. In May 1989 Egypt rejoined OAPEC. For consistency, Egypt is included in the historical series of the OAPEC totals.

Persian (Arabian) Gulf countries are: Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates.

The term "Former USSR" is being used in the International Petroleum Monthly as a purely geographical expression, referring to the Commonwealth of Independent States (CIS), Georgia, and the three Baltic States (Estonia, Latvia, and Lithuania).

Appendix B

Explanatory Notes

Appendix B. Explanatory Notes

Note 1: World Oil Supply

Supply includes production of crude oil (including lease condensate), natural gas plant liquids, other hydrogen and hydrocarbons for refinery feedstocks, refinery gain, alcohol, and liquids produced from coal and other sources. Beginning in 1993, U.S. data includes fuel ethanol blended into finished motor gasoline and oxygenate production from merchant MTBE plants.

Note 2: Oil Stocks

The International Energy Agency (IEA) assembles and reports total oil stock data for the member countries of the Organization for Economic Cooperation and Development (OECD). Oil stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined petroleum products. In its report titled Quarterly Oil Statistics and Energy Balances of OECD Countries, the IEA defines oil stocks as follows: "All non-military stocks held by importers (including all final consumers directly), refiners, Governments, major non-importing final consumers eligible under IEA/OECD commitments and by foreign entities in the following facilities: bulk terminals, refinery tanks, pipeline tankage, barges, intercoastal tankers (when port of departure and destination are in the reporting country), tankers in port (to the extent that their cargo is to be unloaded in the reporting country), and inland ship bunkers. Oil is reported regardless of the ownership of such storage facilities." IEA data exclude "oil held in pipelines, rail and truck tank cars, sea-going ships' bunkers, service stations, retail stores and tankers at sea." Also the IEA defines the United States to be the 50 States and the District of Columbia, and the U.S. Territories (Guam, Puerto Rico, and the U.S. Virgin Islands). The Energy Information Administration (EIA) does not include the United States Territories in its statistical definition of the United States. Further, the EIA includes oil in oil pipelines as part of its stock data. Tables 1.5, 1.6, 2.3, and 4.4 include oil stocks for the United States according to EIA definitions. Using IEA definitions, at the end of June 1999 United States (including territories) oil stocks totaled 1,481 million barrels.

Note 3: A Change to the Oil Balance in Section 2.

Prior to August 1992, Section 2 of the International Petroleum Monthly presented a balance of oil supply, demand, and stock change for the Market Economies, at quarterly time intervals. The communist countries, or Centrally Planned Economies (CPEs) were not included in the balance, mainly because good quarterly data for oil demand in these countries were not available. Net imports from the CPEs were included in the balance as part of total Market Economies supply. At present, the former Soviet Union and most of the countries of Eastern Europe are in transition from communism to market economies; because of this there are no longer good political or economic reasons to publish an oil balance only for the countries that have traditionally been market economies. Beginning with the August 1992 edition, Section 2 of the International Petroleum Monthly was changed from a Market Economies oil balance to a world oil balance.

The main data issues related to this change may be summarized as follows:

Supply Data. Monthly oil supply data are available for all countries of the world. These data are used to generate Tables 1.1 to 1.4; they were used to expand the Section 2 supply table (Table 2.2) to the whole world.

Demand Data. EIA has now developed quarterly figures for world oil demand, including demand in the former CPEs; these are published in Table 4 of EIA's Short-Term Energy Outlook. The procedures involved in developing quarterly world demand numbers may be summarized as follows:

Complete monthly data are available for the 24 OECD countries. Annual demand data for all countries (about 200 countries) are presented in EIA's International Energy Annual. In 1993, the OECD accounted for about three-fifths of total world demand, the 25 largest consumers outside of the OECD accounted for about one-third of the world total, and the remaining countries (about 150 countries) accounted for less than one-tenth of the total. The key problem, therefore, is to develop good figures for the 25 largest consumers outside the OECD.

Of these 25 countries, by far the largest consumer is Russia, which in 1993 accounted for about one-sixth of the demand in the group of 25. The next largest consumer is China, which in 1993 accounted for about one-seventh of the demand in the group. Thus in 1993 Russia and China accounted for one-third of the demand in the group of 25. For these 2 countries, data are available on oil production and net exports. The demand numbers shown in Section 2 are computed as production minus net exports. This is the same procedure used in the EIA Short-Term Energy Outlook, by the International Energy Agency in their Monthly Oil Market Report, and in other respected publications that deal with international oil markets. Note, however, that this method of computing demand ignores both refinery gain and stock changes.

For other major consuming countries outside of the OECD, quarterly demand data are developed based upon the latest available annual data, analytic judgment about current trends, and some seasonal adjustments. These are the same procedures used for the Short-Term Energy Outlook.

Stocks Data. Reliable stocks data are available for the OECD countries. Estimates of stocks for export and afloat, and of commercial floating stocks, are available. (See sources at the end of Section 2.)

For on-land stocks outside the OECD, there is little reliable data. Most estimates of on-land stocks outside the OECD are based on the theory that stocks are approximately equal to some number of days of demand. Demand figures (which themselves involve some degree of estimation) are then used to compute estimates of stock levels.

In the International Petroleum Monthly, it had been the practice for some time to estimate that on-land stocks in the traditional market economies outside of the OECD were equal to 55 days of demand. This was acceptable, mainly because the rule was used only to estimate a relatively small part of total stocks (about 16 percent).

When Section 2 was converted from a Market Economies oil balance to a world oil balance, there were important changes in the conditions that made it reasonable to estimate on-land stocks outside of the OECD using the rule of 55 days of demand. When the CPEs are included, the stocks that must be estimated are a considerably larger part of the total. In 1990, total oil demand in the former CPEs was more than 80 percent as large as demand in all of the non-OECD traditional market economies. Thus the quantity of stocks that would have to be estimated using a 55-day rule would nearly double, and the estimated components of stock levels and stock changes would become relatively large parts of the total. One consequence of this is that the statistical discrepancy (as shown in Table 2.1) would become less useful as an indicator of the overall consistency of the data. The statistical discrepancy is computed from supply, demand, and stock change. If a large part of the stock change is estimated, then the statistical discrepancy loses much of its significance.

As already noted, quarterly demands in the former Soviet Union and in China are computed as production minus net exports. This computation implicitly assumes a zero stock change. Demand in the former Soviet Union is falling. If we were to use a 55-day rule to compute stock levels, falling demand would imply falling stock levels. This would contradict the assumption of zero stock change which was used in computing demand.

In view of all this, the following approach has been adopted. Table 2.3 now shows levels of stocks for the OECD countries, levels of stocks for export and afloat, and levels of commercial floating storage. Stock changes based on these stock levels are shown in Table 2.1. At this time, no other stock levels are shown. Table 2.1 now has a single line labeled "Other Stock Draw and Statistical Discrepancy", which contains the computed values needed to make the table balance.

It may become possible in the future to obtain reliable information on certain categories of on-land stocks outside the OECD. If such data become available, they will be added to Table 2.3, and the corresponding stock change information will be added to Table 2.1.

Changes in Formats and Sign Conventions. There were several changes in Section 2 to make the International Petroleum Monthly more consistent with other EIA publications, especially with the Short-Term Energy Outlook. The numbers were changed from 1 decimal place to 2 decimal places. The word "consumption", as used before August 1992, was changed to "demand". The sign convention for stock changes in Table 2.1 was changed. Stock draws are now indicated by positive numbers, and stock additions are indicated by negative numbers. Table 2.1 also uses a new sign convention for the line labeled "Other Stock Draw and Statistical Discrepancy". The values in this line are now computed as Total Demand minus the sum of Total Supply and Total Reported Stock Draw. This is the reverse of the sign convention used before August 1992.

Summary. Section 2 was expanded from a Market Economies oil balance to a world oil balance. Supply data are tracked for all producing countries. Demand data are tracked for the 24 OECD countries, and for 25 large consumers outside of the OECD. Demand for the remaining countries (less than 10 percent of total demand) is estimated, for years that are not yet available in the International Energy Annual. The stock levels in these tables are based on reported data for the OECD and for stocks at sea. The line in Table 2.1 labeled "Other Stock Draw and Statistical Discrepancy" is a balancing item.

Appendix C

Glossary

Appendix C. Glossary

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The molecules in the series vary in chain length and are composed of a hydrocarbon plus a hydroxyl group. Alcohol includes methanol and ethanol.

Demand (Consumption/Petroleum Products Supplied). Total petroleum products supplied is the sum of all petroleum products supplied. For each product, the amount supplied is calculated by summing production, crude oil burned directly, imports, and net withdrawals from primary stocks and subtracting exports.

Crude Oil. A mixture of hydrocarbons that existed in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface-separating facilities. Crude oil production is measured at the wellhead and includes lease condensate.

Government-Owned Stocks. Oil stocks owned by the national government and held for national security. In the United States these stocks are known as the Strategic Petroleum Reserve.

Lease Condensate. A liquid recovered from natural gas at the well or at small gas/oil separators in the field. Consists primarily of pentanes and heavier hydrocarbons (also called field condensate).

Natural Gas Plant Liquids. Products obtained from processing natural gas at natural gas processing plants, including natural gasoline plants, cycling plants, and fractionators. Products obtained include ethane, liquefied petroleum gases, (propanes, butane, propane-butane mixtures, and ethane-propane mixtures), isopentane, natural gasoline, unfractionated streams, plant condensate, and other minor quantities of finished products, such as motor gasoline, special naphthas, jet fuel, kerosene, and distillate fuel oil.

Oil Stocks. Oil stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined petroleum products. See Explanatory Note 2.

Other Hydrocarbons. Other materials processed at refineries. Includes coal tar derivatives, hydrogen, gilsonite, and natural gas received by the refinery for reforming into hydrogen.

Oxygenates. Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, ethane, liquefied petroleum gases, petrochemical feedstocks, special naphthas, lubricants, paraffin wax, petroleum coke, asphalt road oil, still gas, and other miscellaneous products.

Processing Gain. The amount by which the total volume of refinery output is greater than the volume of input for given period of time. The processing gain arises when crude oil and other hydrocarbons are processed into products that are, on average, less dense than the input.

Processing Loss. The amount by which the total volume of refinery output is less than the volume of input for given period of time. The processing loss arises when crude oil and other hydrocarbons are processed into products that are, on average, more dense than the input.

Appendix D

Estimation Procedures

Appendix D. Estimation Procedures

Estimation procedures are used for demand numbers in many of the countries outside of the OECD, in cases where data from EIA's International Energy Annual are not yet available. Demand numbers for 1997 and earlier years, for all countries, may be found in EIA's International Energy Annual 1997, published in April 1999, which is the most recent published edition of the International Energy Annual. EIA's WORLD ENERGY database contains final demand data for all countries of the world for 1996, and preliminary demand data for all countries for 1997. Instructions for downloading this database may be found on EIA's home page (<http://www.eia.doe.gov/emeu/world/main1.html>). The status of the demand numbers shown in Section 2 of this current International Petroleum Monthly may be summarized as follows.

The OECD demand numbers are, as usual, based on the latest Quarterly Oil Statistics and Monthly Oil Statistics data from the International Energy Agency.

For countries outside of the OECD, the following approach is used. The numbers for 1997 and earlier years match the demand numbers in the WORLD ENERGY database on EIA's home page. Numbers for 1998 forward are the best available EIA estimates, based upon the best annual data currently available, analytic judgment about current trends, and some seasonal adjustments. These are the same numbers that appear in the international oil balance table in EIA's Short-Term Energy Outlook.

The two largest non-OECD oil consumers are China and Russia. For these two countries, published data are available on production and net exports. Demand is computed as production minus net exports. This is the same approach used in the Short-Term Energy Outlook, by the International Energy Agency in their Monthly Oil Market Report, and in other major publications dealing with international oil data. Note, however, that because of this computation, the demand numbers for China and Russia implicitly exclude stock draw and refinery gain.

Appendix E

Conversions

Table E1. Refined Petroleum Products Conversion Factors

Product	Barrels per Metric Ton
Asphalt	6.06
Distillate Fuel Oil	7.46
Gasoline, Aviation	8.90
Gasoline, Motor	8.53
Greases	6.30
Jet Fuel, Kerosene-type	7.93
Jet Fuel, Naptha-type	8.27
Kerosene	7.73
Liquefied Petroleum Gas (LPG)	11.60
Lubricants	7.00
Miscellaneous Products	8.04
Naphthas	8.22
Natural Gas Liquids (NGL)	10.40
Natural Gasoline	10.00
Paraffin Oil	7.14
Paraffin Wax	7.87
Petrolatum	7.87
Petroleum Coke	5.51
Residual Fuel Oil	6.66
White Spirits	8.50

Table E2. Barrels of Crude Oil per Metric Ton, 1988-1997

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
North America										
Canada	7.453	7.453	7.186	7.186	7.186	7.186	7.186	7.186	7.186	7.186
Mexico	6.965	6.965	6.965	6.965	6.965	6.965	6.965	6.965	6.965	6.965
United States	7.333	7.333	7.333	7.333	7.333	7.333	7.333	7.333	7.333	7.333
Central & South America										
Argentina	7.149	7.149	7.120	7.120	7.120	7.120	7.120	7.120	7.120	7.120
Bolivia	7.881	7.881	7.881	7.881	7.881	7.881	7.881	7.881	7.881	7.881
Brazil	7.268	7.268	7.056	7.056	7.056	7.056	7.056	7.056	7.056	7.056
Chile	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Colombia	7.084	7.084	7.080	7.080	7.080	7.080	7.080	7.080	7.080	7.080
Cuba	6.449	6.449	6.449	6.449	6.449	6.449	6.449	6.449	6.449	6.449
Ecuador	7.130	7.130	7.130	7.130	7.130	7.130	7.130	7.130	7.130	7.130
Peru	7.407	7.407	7.407	7.407	7.407	7.407	7.407	7.407	7.407	7.407
Trinidad and Tobago	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084
Venezuela	6.880	6.880	6.890	6.890	6.890	6.890	6.890	6.890	6.890	6.890
Western Europe										
Austria	7.082	7.082	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200
Denmark	7.689	7.689	7.405	7.405	7.405	7.405	7.405	7.405	7.405	7.405
France	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332
Germany	--	--	--	7.330	7.330	7.330	7.330	7.330	7.330	7.330
Germany, East	7.340	7.340	7.340	--	--	--	--	--	--	--
Germany, West	7.247	7.247	7.247	--	--	--	--	--	--	--
Greece	7.178	7.178	7.231	7.231	7.231	7.231	7.231	7.231	7.231	7.231
Italy	6.853	6.853	7.300	7.300	7.300	7.300	7.300	7.300	7.300	7.300
Netherlands	6.853	6.853	7.239	7.239	7.239	7.239	7.239	7.239	7.239	7.239
Norway	7.810	7.810	7.644	7.644	7.644	7.644	7.644	7.644	7.644	7.644
Spain	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Sweden	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247
Turkey	7.150	7.150	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200
United Kingdom	7.466	7.466	7.523	7.523	7.523	7.523	7.523	7.523	7.523	7.523
Former Yugoslavia	7.418	7.418	7.418	7.418	--	--	--	--	--	--
Croatia	--	--	--	--	7.418	7.418	7.418	7.418	7.418	7.418
Serbia and Montenegro	--	--	--	--	7.418	7.418	7.418	7.418	7.418	7.418
Slovenia	--	--	--	--	--	7.418	7.418	7.418	7.418	7.418

-- = No Production of this form of energy.

Sources: International Energy Annual 1997, DOE/EIA-0219(97) (April 1999).

Table E2. Barrels of Crude Oil per Metric Ton, 1988-1997 (continued)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Eastern Europe & Former U.S.S.R.										
Albania	6.594	6.594	6.594	6.594	6.594	6.594	6.594	6.594	6.594	6.594
Bulgaria	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332
Former Czechoslovakia	6.780	6.780	6.780	6.780	6.780	--	--	--	--	--
Czech Republic	--	--	--	--	--	6.780	6.780	6.780	6.780	6.780
Slovakia	--	--	--	--	--	6.780	6.780	6.780	6.780	6.780
Hungary	6.690	6.690	6.690	6.690	6.690	6.690	6.690	6.690	6.690	6.690
Poland	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418
Romania	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Former U.S.S.R.	7.270	7.270	7.270	7.270	--	--	--	--	--	--
Azerbaijan	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Belarus	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Georgia	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Lithuania	--	--	--	--	--	7.270	7.270	7.270	7.270	7.270
Kazakhstan	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Kyrgyzstan	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Russia	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Tajikistan	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Turkmenistan	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Ukraine	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Uzbekistan	--	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270
Middle East										
Bahrain	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320
Iran	7.305	7.305	7.350	7.350	7.350	7.350	7.350	7.350	7.350	7.350
Iraq	7.426	7.426	7.430	7.430	7.430	7.430	7.430	7.430	7.430	7.430
Israel	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247
Jordan	7.190	7.190	7.190	7.190	7.190	7.190	7.190	7.190	7.190	7.190
Kuwait	7.245	7.245	7.250	7.250	7.250	7.250	7.250	7.250	7.250	7.250
Oman	7.332	7.332	7.330	7.330	7.330	7.330	7.330	7.330	7.330	7.330
Qatar	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500
Saudi Arabia	7.268	7.268	7.323	7.323	7.323	7.323	7.323	7.323	7.323	7.323
Syria	6.836	6.836	6.836	6.836	6.836	6.836	6.836	6.836	6.836	6.836
United Arab Emirates	7.480	7.480	7.480	7.480	7.480	7.480	7.480	7.480	7.480	7.480
Yemen	7.632	7.632	7.631	7.631	7.631	7.631	7.631	7.631	7.631	7.631

-- = No Production of this form of energy.

Sources: International Energy Annual 1997. DOE/EIA-0219(97) (April 1999).

Table E2. Barrels of Crude Oil per Metric Ton, 1988-1997 (continued)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Africa										
Algeria	7.936	7.936	8.130	8.130	8.130	8.130	8.130	8.130	8.130	8.130
Angola	7.409	7.409	7.409	7.409	7.409	7.409	7.409	7.409	7.409	7.410
Benin	6.870	6.870	6.870	6.870	6.870	6.870	6.870	6.870	6.870	6.870
Cameroon	7.205	7.205	7.205	7.205	7.205	7.205	7.205	7.205	7.205	7.205
Congo (Brazzaville)	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Congo (Kinshasa)	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320
Cote d'Ivoire (Ivory Coast)	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285
Egypt	7.256	7.256	7.256	7.256	7.256	7.256	7.256	7.256	7.256	7.260
Equatorial Guinea	--	--	--	8.077	8.077	8.077	8.077	8.077	8.077	8.077
Gabon	7.305	7.305	7.305	7.305	7.305	7.305	7.305	7.305	7.305	7.305
Ghana	--	--	--	--	7.285	7.285	7.285	7.285	7.285	7.285
Libya	7.515	7.515	7.580	7.580	7.580	7.580	7.580	7.580	7.580	7.580
Morocco	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600
Nigeria	7.315	7.315	7.315	7.315	7.315	7.315	7.315	7.315	7.315	7.500
Sudan	--	--	--	--	7.452	7.452	7.452	7.452	7.452	7.452
Tunisia	7.689	7.689	7.689	7.689	7.689	7.689	7.689	7.689	7.689	7.689
Far East & Oceania										
Australia	7.855	7.855	7.868	7.868	7.868	7.868	7.868	7.868	7.868	7.868
Bangladesh	7.453	7.453	7.453	7.453	7.453	7.453	7.453	7.453	7.453	7.453
Brunei	7.340	7.340	7.340	7.340	7.340	7.340	7.340	7.340	7.340	7.340
Burma	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084
China	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.300
India	7.600	7.600	7.440	7.440	7.440	7.440	7.440	7.440	7.440	7.330
Indonesia	7.558	7.558	7.360	7.360	7.360	7.360	7.360	7.360	7.360	7.360
Japan	7.285	7.285	7.357	7.357	7.357	7.357	7.357	7.357	7.357	7.357
Malaysia	7.641	7.641	7.641	7.641	7.641	7.641	7.641	7.641	7.641	7.641
New Zealand	8.127	8.127	8.127	8.127	8.127	8.127	8.127	8.127	8.127	8.127
Pakistan	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500
Papua New Guinea	--	--	--	7.809	7.809	7.809	7.809	7.809	7.809	7.809
Philippines	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285
Taiwan	6.568	6.568	6.568	6.568	6.568	6.568	6.568	6.568	6.568	6.568
Thailand	6.758	6.758	6.758	6.758	6.758	6.758	6.758	6.758	6.758	6.758
Vietnam	7.082	7.082	7.082	7.082	7.082	7.082	7.082	7.082	7.082	7.082

-- = No Production of this form of energy.

Sources: International Energy Annual 1997. DOE/EIA-0219(97) (April 1999).